zenith

Thanks for choosing Zenith!

operating guide / warranty

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:
TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:
CAUTION: To Prevent Electric Shock, Match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:
This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:
Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

Hook-Up Directory

This page will help you hook up your Entertainment Machine properly.

IMPORTANT!! Use this page to decide where you need to begin your setup.
First, find the line below that best describes what you want to do, then go to that page number.
Note: Design and Specifications are subject ot change without prior notice.

INPUT HOOK-UP OPTIONS

Antenna   If you receive your TV channels from an antenna, go to . . . . .page 6

Cable   If you are receiving cable directly from the wall or use a cable box, go to . . . . page 7

Antenna/VCR   If you receive your TV channels froma an antenna and have a VCR, go to . . . . .page 8

VCR and Cable   If you want to connect a VCR and have cable service or a cable box, go to . . . . page 9

Super VHS   If you are using a Super-VHS VCR, go to . . . . page 10
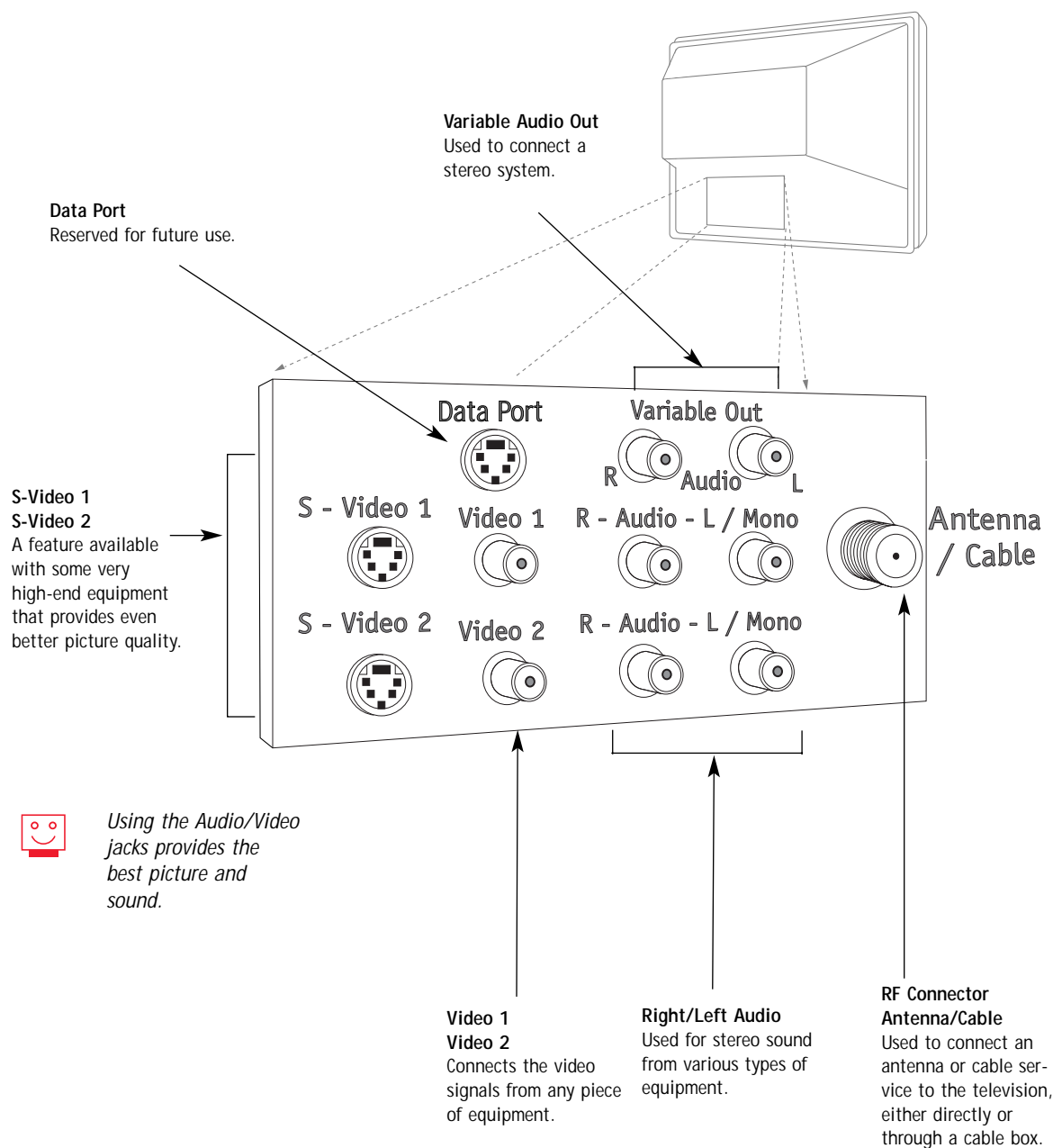
For general information about the jacks on your Entertainment Machine, see pages 4 and 5.

AUDIO EQUIPMENT OPTIONS

External Stereo   To hook up your entertainment machine to an external stereo, go to . . . . page 11

Connection Jacks

Your jack-pack and its various uses.

Variable Audio Out
Used to connect a stereo system.

Data Port
Reserved for future use.

S-Video 1
S-Video 2
A feature available with some very high-end equipment that provides even better picture quality.

Data Port   Variable Out
                    R   Audio   L

S - Video 1   Video 1   R - Audio - L / Mono   Antenna / Cable

S - Video 2   Video 2   R - Audio - L / Mono

Using the Audio/Video jacks provides the best picture and sound.

Video 1
Video 2
Connects the video signals from any piece of equipment.

Right/Left Audio
Used for stereo sound from various types of equipment.

RF Connector
Antenna/Cable
Used to connect an antenna or cable service to the television, either directly or through a cable box.

Mini glossary

JACK   A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack (Antenna/Cable) that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a bigger opening and are color-coded.

SIGNAL   Picture and sound traveling through cable, or on the air, to your television screen.

3376-0

Front A/V Jacks

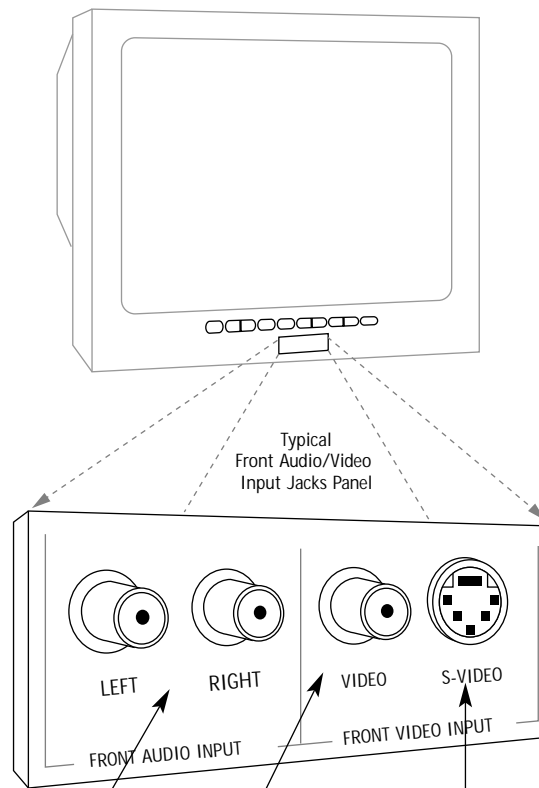Note: Not available on Model No. A27B43

There are four jacks on the front of your Entertainment Machine that make connecting Audio/Video devices like video games and camcorders very simple.

The jacks are located behind a small door below the buttons on the front panel.

The jacks are exactly like those found on the jack pack on the back of your Entertainment Machine. Which means that any equipment that connects to those types of jacks in the jack pack, can also be connected in front.

To use the front jacks as the signal source, use the Source menu as described on page 21. The jacks are labeled "Front Video," and "Front S-Video."

You can connect equipment to either the Front Video jack or Front S-Video jack, but not both at the same time.

Hooking up temporary equipment to your Entertainment Machine.

Typical
Front Audio/Video
Input Jacks Panel

LEFT   RIGHT   VIDEO   S-VIDEO

FRONT AUDIO INPUT   FRONT VIDEO INPUT

Left/Right Audio
Used for stereo sound from various types of equipment.

Video
Connects the video signals from any piece of equipment.

S-Video
A connection availale for some very high-end equipment that provides even better picture quality.

Mini glossary

A/V CABLES   Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.
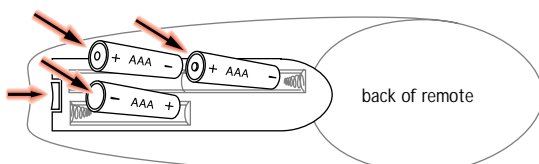
A/V DEVICE   Any device that produces video or sound (VCR, DVD, cable box, or television).
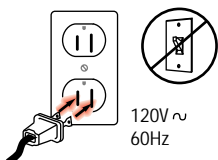
Hook Up Your Antenna to the TV

Connect an antenna to your Entertainment Machine.

1 See diagrams at right to hook up your Entertainment Machine.

2 Remove the back of the remote and put in three AAA batteries.

+ AAA −   + AAA −
− AAA +
back of remote

3 Plug in your TV. Do not plug it into a switched outlet.

120V ~
60Hz

4 Go to page 13 to Auto Program your Entertainment Machine.

If you have a 75 ohm RF cable, then you don't need any adapters!
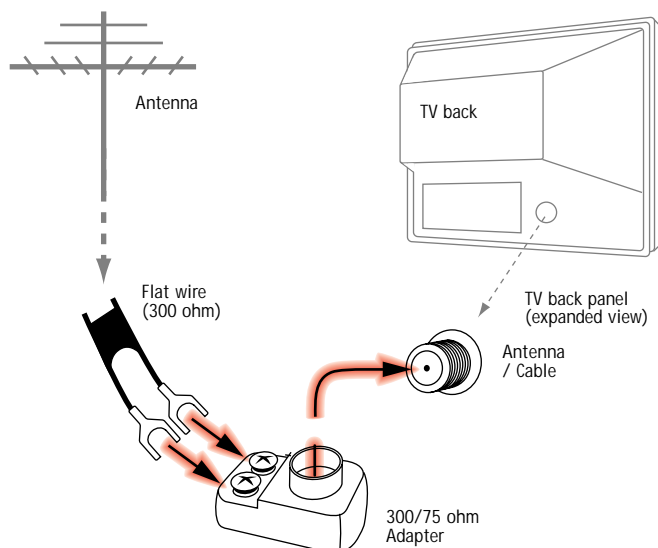
Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.
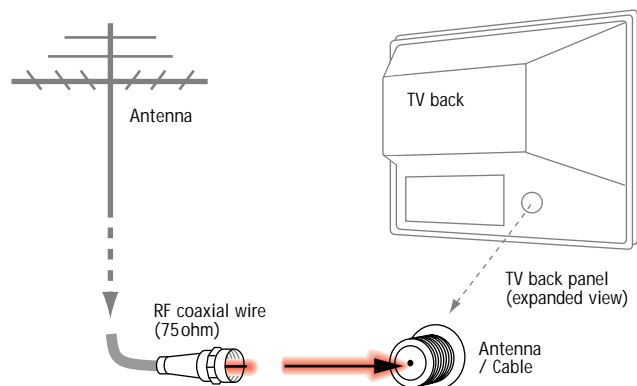
A 300 to 75 ohm adapter is not included with your Zenith Entertainment Machine.

Flat-Wire Antenna to Adapter

Antenna

TV back

Flat wire (300 ohm)

TV back panel (expanded view)

Antenna / Cable

300/75 ohm Adapter

Round Antenna Wire

Antenna

TV back

RF coaxial wire (75 ohm)

TV back panel (expanded view)

Antenna / Cable

Mini glossary

75 OHM RF CABLE — The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded Antenna/Cable jack on the back of your TV.
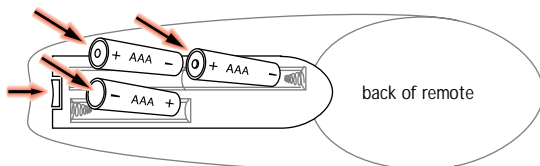
300 TO 75 OHM ADAPTER — A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.
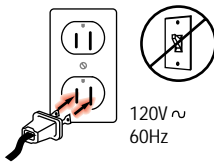
3376-0

Hook Up Your Cable (CATV) to the TV

Connect cable to your Entertainment Machine.

1 See diagrams at right to hook up your Entertainment Machine.

2 Remove the back of the remote and put in three AAA batteries.

o + AAA −   − + AAA −

− AAA +

back of remote

3 Plug in your TV. Do not plug it into a switched outlet.

120V ~
60Hz

4 Go to page 13 to Auto Program your Entertainment Machine.

If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.
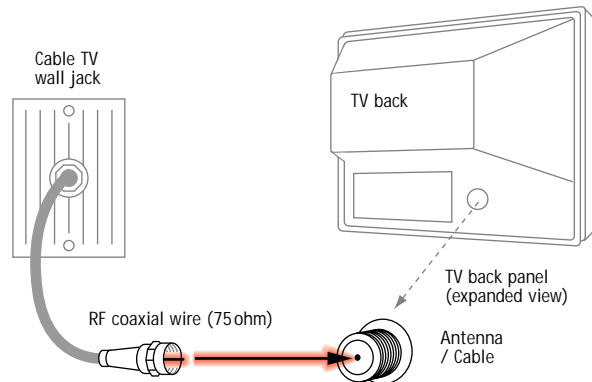
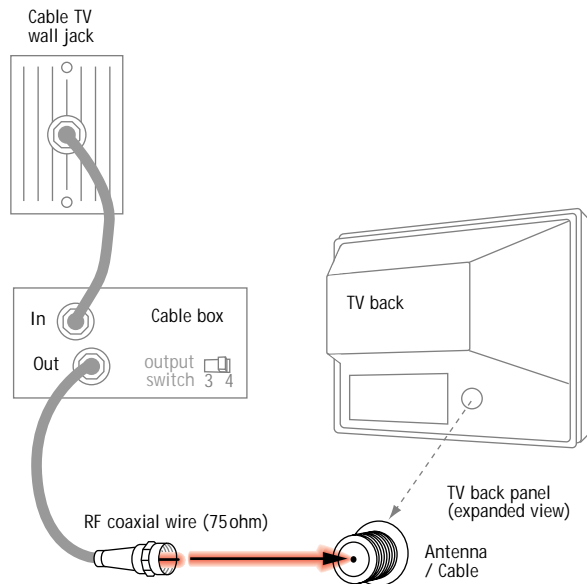*Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.*

If you're using a cable box, Auto-Program (page 13) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!

Without Cable Box

Cable TV wall jack

TV back

TV back panel (expanded view)

RF coaxial wire (75 ohm)   Antenna / Cable

With Cable Box

Cable TV wall jack

In   Cable box

Out   output switch 3 4

TV back

TV back panel (expanded view)

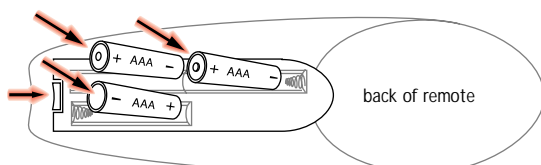RF coaxial wire (75 ohm)   Antenna / Cable

Mini glossary

CABLE SERVICE   The wire that supplies all your cable TV (CATV) stations.
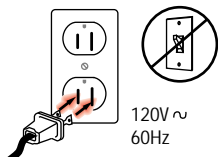
3376-0

Hook Up Antenna and VCR to the TV

Connect your off-air antenna and VCR to your Entertainment Machine.

1 See diagrams at right to hook up your Entertainment Machine.

2 Remove the back of the remote and put in three AAA batteries.

+ AAA −   + AAA −   − AAA +   back of remote

3 Plug in your TV. Do not plug it into a switched outlet.

120V ∼ 60Hz

4 Go to page 13 to Auto Program your Entertainment Machine.

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

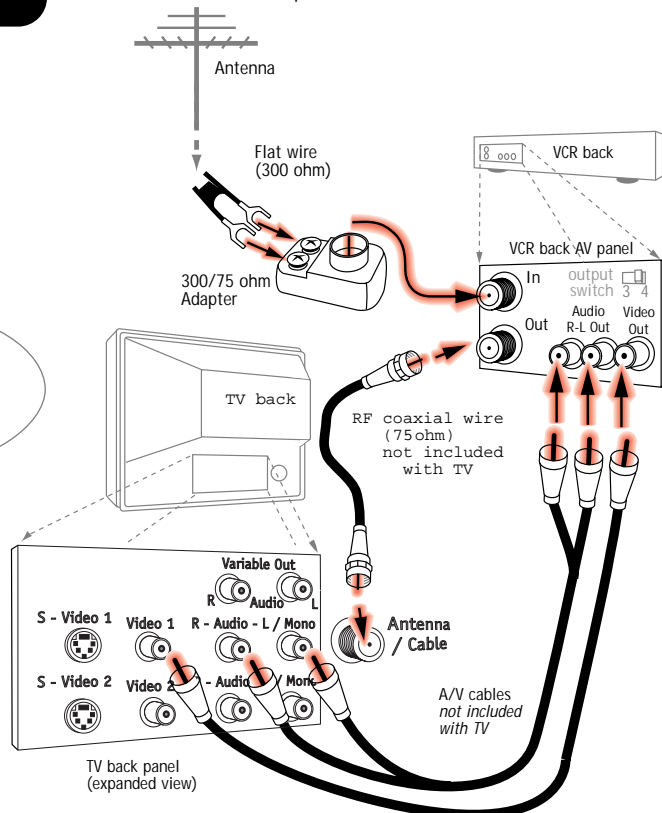*Use Video sources for better picture and sound.*

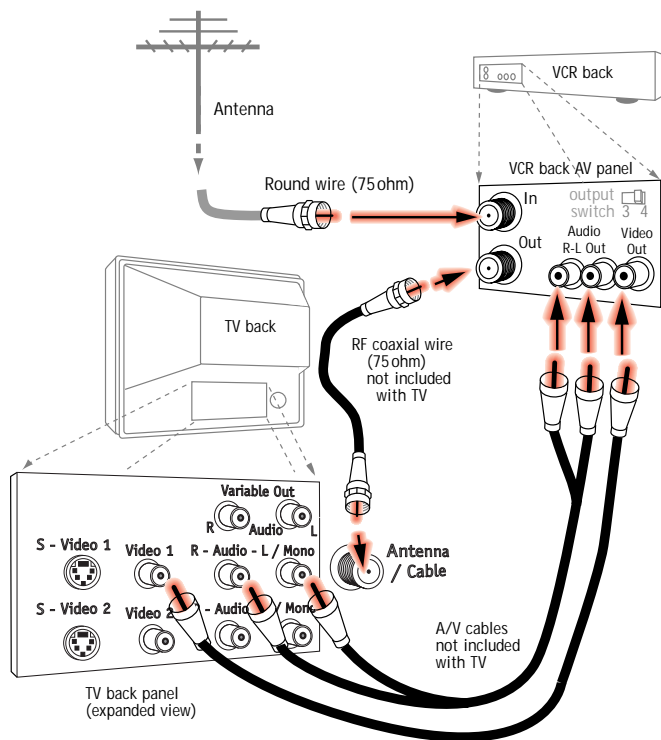*No A/V cables are included with your Zenith Entertainment Machine.*

Without A/V cables, VCRs will not play videocassettes in stereo sound.

Flat-Wire Antenna to Adapter and Audio/Video Cables

Antenna

Flat wire (300 ohm)

VCR back

300/75 ohm Adapter

VCR back AV panel

In
output switch 3 4
Out   Audio R-L Out   Video Out

TV back

RF coaxial wire (75 ohm) not included with TV

Variable Out
R Audio L

S - Video 1   Video 1   R - Audio - L / Mono   Antenna / Cable
S - Video 2   Video 2   - Audio / Mono

A/V cables *not included with TV*

TV back panel (expanded view)

Round Cable to VCR and Audio/Video Cables

Antenna

Round wire (75 ohm)

VCR back

VCR back AV panel

In
output switch 3 4
Out   Audio R-L Out   Video Out

TV back

RF coaxial wire (75 ohm) not included with TV

Variable Out
R Audio L

S - Video 1   Video 1   R - Audio - L / Mono   Antenna / Cable
S - Video 2   Video 2   - Audio / Mono

A/V cables not included with TV

TV back panel (expanded view)

3376-0

Hook Up Your Cable (CATV) and VCR

1 See diagrams at right to hook up your Entertainment Machine.

2 Remove the back of the remote and put in three AAA batteries.

back of remote

+ AAA −
+ AAA −
− AAA +

3 Plug in your TV. Do not plug it into a switched outlet.

120V ~
60Hz

4 Go to page 13 to Auto Program your Entertainment Machine.

Leave your VCR and your television tuned to channel three and use the cable box to change channels.

Remember, when screwing in RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

Use Video sources for better picture and sound.

No A/V cables are included with your Zenith Entertainment Machine. Without A/V cables, VCRs will not play videocassettes in stereo sound.

Cable Service and Audio/Video Cables

Connect your VCR and Cable to your Entertainment Machine.

Cable TV wall jack

VCR back

VCR back AV panel

Round wire (75 ohm)

In
Out

output switch 3 4
Audio R-L Out   Video Out

TV back

RF coaxial wire (75 ohm) not included with TV

Variable Out
R   Audio   L

S – Video 1   Video 1   R – Audio – L / Mono

S – Video 2   Video 2   R – Audio – L / Mono

Antenna / Cable

A/V cables not included with TV

TV back panel (expanded view)
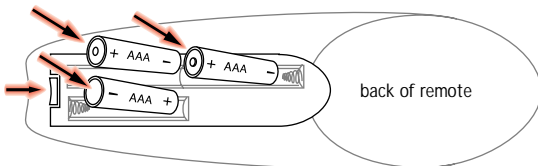
Cable Service with a Cable Box and Audio/Video Cables

Cable TV wall jack

In
Out   Cable box
output switch 3 4

VCR back

VCR back AV panel

Round wire (75 ohm)

In
Out

output switch 3 4
Audio R-L Out   Video Out

TV back

RF coaxial wire (75 ohm) not included with TV

Variable Out
R   Audio   L

S – Video 1   Video 1   R – Audio – L / Mono

S – Video 2   Video 2   R – Audio – L / Mono

Antenna / Cable

A/V cables not included with TV

TV back panel (expanded view)

3376-0

Super VHS VCR
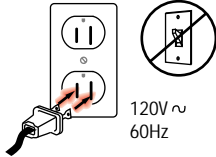
Super VHS VCR Connections and Audio/Video Cables

Connecting a Super VHS VCR to your Entertainment Machine.

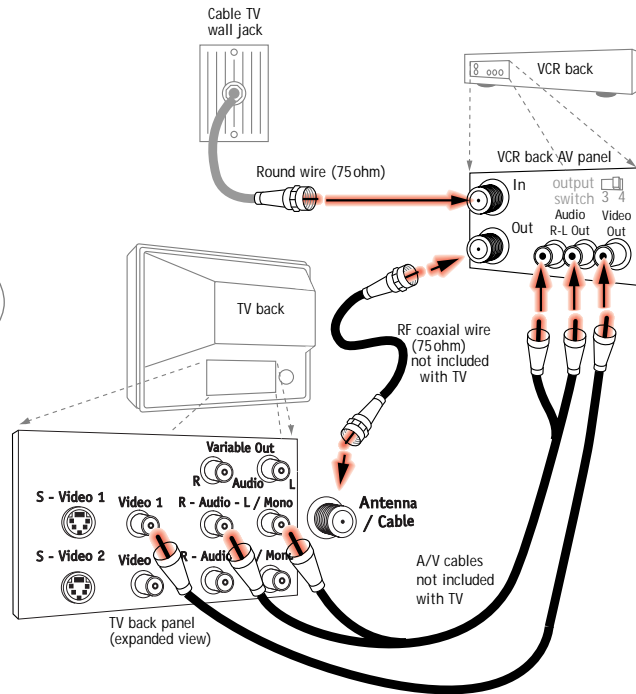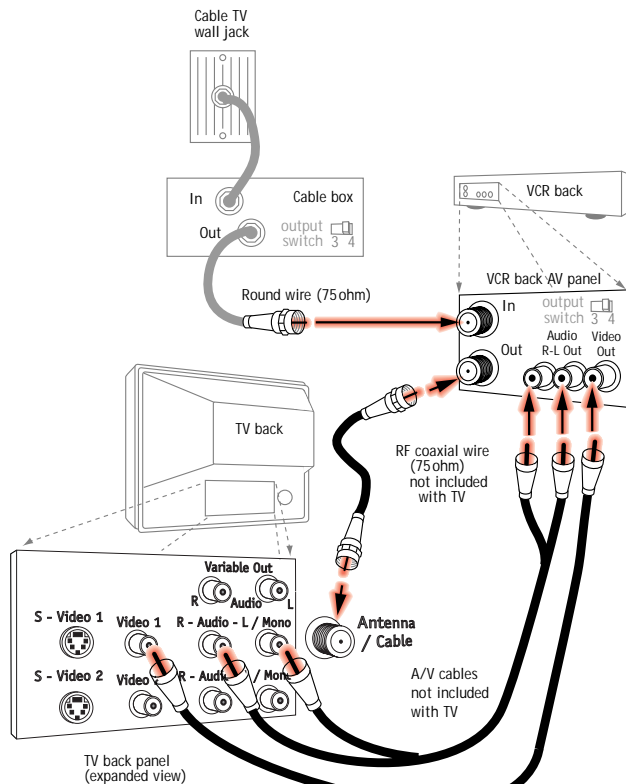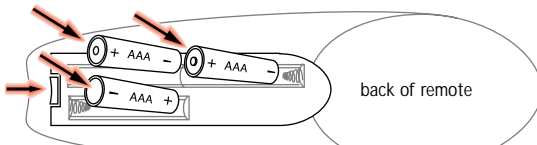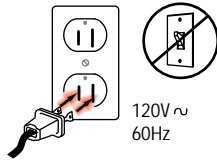**1** See diagrams at right to hook up your Entertainment Machine.

2 Remove the back of the remote and put in three AAA batteries.

back of remote

3 Plug in your TV. Do not plug it into a switched outlet.

120V ~
60Hz

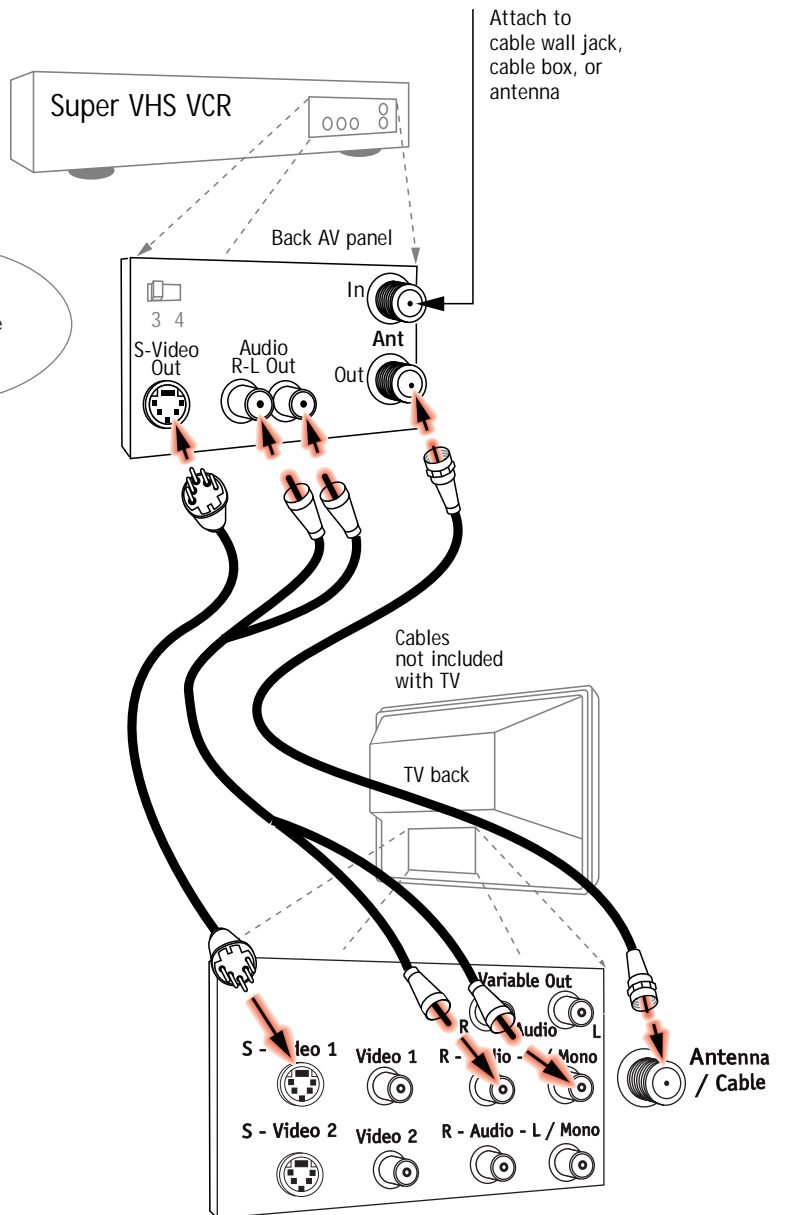**4** Go to page 13 to Auto Program your Entertainment Machine.

Use S-Video or Video sources for better picture and sound.

To use with PIP: go to the Source Menu (page 21) and choose the jack you've connected your S-VHS VCR to (S-VHS 1, or S-VHS 2) as the Main or PIP source.

S-Video 1 and S-Video 2 are input connectors.

Super VHS VCR

Attach to cable wall jack, cable box, or antenna

Back AV panel

3 4

In

Ant

S-Video Out

Audio R-L Out

Out

Cables not included with TV

TV back

Variable Out

R   **Audio**   **L**

S - Video 1   Video 1   R - Audio - L / Mono

S - Video 2   Video 2   R - Audio - L / Mono

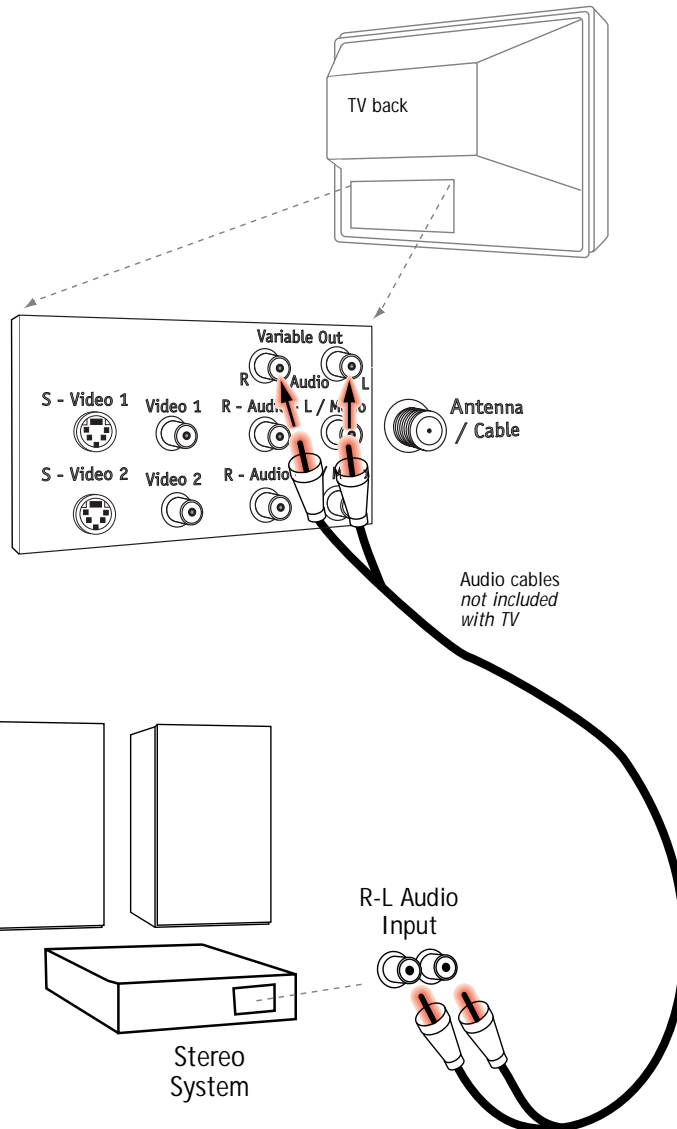**Antenna / Cable**

Variable Audio Out Hook-ups

Variable Audio Out to Stereo System using Right/Left Audio Cables

Before you begin plugging in your stereo system, it's a good idea to put it in its approximate place first. That way you know how much audio cable you have or will need.

Get the best sound possible from your Entertainment Machine.

1 Locate the jacks marked Audio Variable Out. These are for the stereo system. Connect the stereo system's cables, according to their color (red is the right channel, white the left) to these jacks.

TV back

Variable Out

R   Audio   L

S - Video 1   Video 1   R - Audio L / Mono

Antenna / Cable

S - Video 2   Video 2   R - Audio

Audio cables *not included with TV*

These cables should be included with your stereo system.

R-L Audio Input

Stereo System
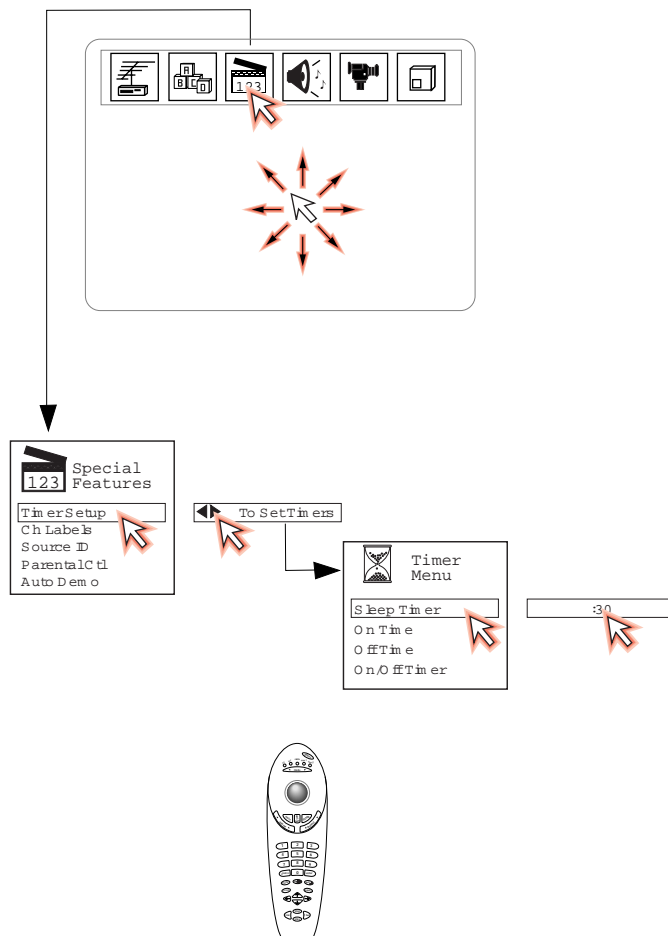
Mini glossary

AUDIO CABLES   Two cables bunched together—Right audio (red), and Left audio (white). Audio cables are used for stereo play back of videocassettes and for higher quality sound from other A/V devices.

3376-0

Using the Z-Trak to operate the on-screen menus.

MBR Z-Trak TV Menu Operation

1 Press MODE repeatedly until the TV indicator lights.

2 Point Z-Trak at Entertainment Machine.

3 Press POWER to turn TV on.

4 Press trackball down and release, to place selector arrow on TV screen.

5 Rotate trackball to move selector arrow around screen until menu selection icons appear.

6 Move the selector arrow over the menu option.

7 Press trackball down and release to select option etc.

8 When finished, move selector arrow off any menu and press trackball down and release to remove menus from view.

Special Features

TimerSetup
Ch Labels
Source ID
ParentalCtl
AutoDemo

To SetTimers

Timer Menu

SleepTimer
OnTime
OffTime
On/OffTimer

:30

Setting Clock/Timer using Trackball

As shown to the right, when setting the clock or on the timer menu: point on hours and click to set, point on minutes and click to set, point on AM or PM and click to change.

Timer Menu

SleepTimer
OnTime
OffTime
On/OffTimer

12:30 AM

3376-0
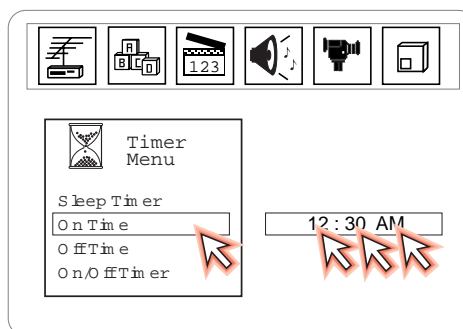
Auto Program (Channel Search)

Automatically finds available channels in your area.

1 Press MENU repeatedly until the Setup Menu appears.

2 Use the UP/DOWN arrow keys, to select Auto Program.

3 Press a LEFT/RIGHT arrow.

4 Use the UP/DOWN arrow keys, to select Off Air Antenna, or if you subscribe to cable service, select Cable.
Note: The flashing option is the one selected.

5 Press a LEFT/RIGHT arrow to begin the channel search.

6 After channel search is done, use Channel UP/DOWN or number key-pad to select channels.

When the screen tells you how many channels it found, click the Trakball for TV viewing.

To customize your channel selection, see Channel Add/Del/Surf on page 22.

3376-0
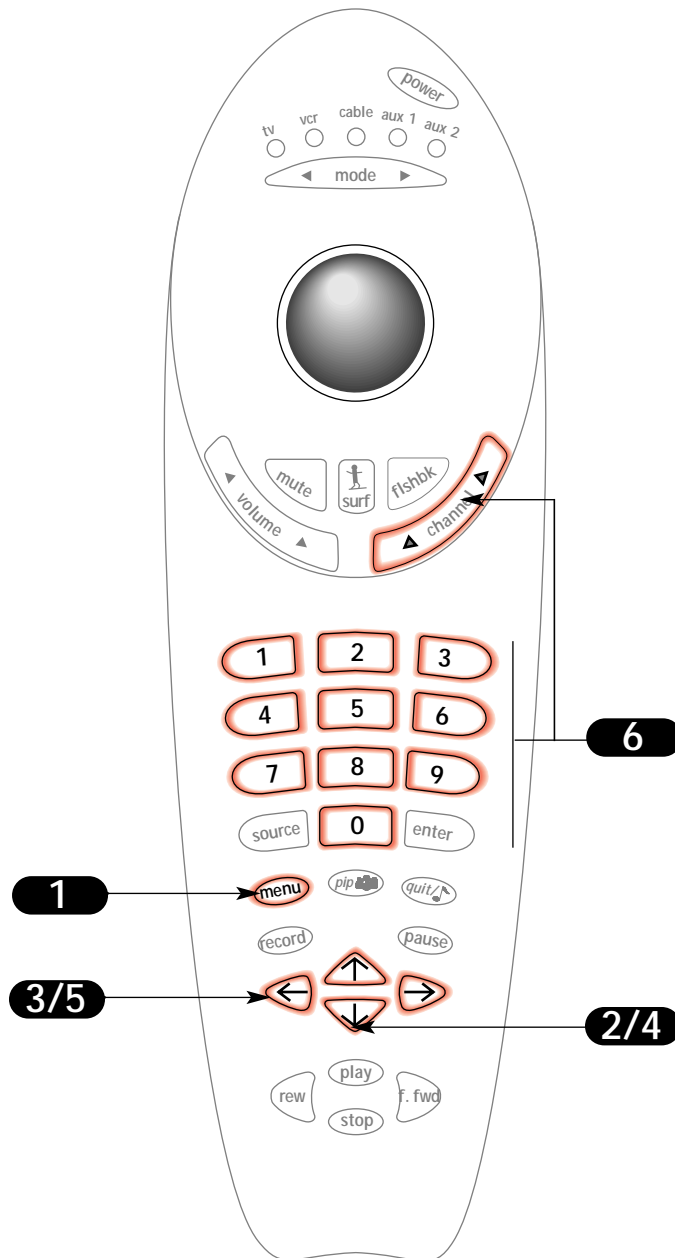
TV Mode Functions

All the keys on your remote, and what they do in TV mode.

MODE INDICATOR LIGHTS
Illuminate to show which mode your remote is in.

MODE LEFT/RIGHT
Adjust which mode your remote is working in.

MUTE
Press once for Soft Mute, and again for full Mute.

SURF
Use the regular channel selection or your customized channel Surf list.

VOLUME LEFT/RIGHT
Increase/decrease the sound level

SOURCE
Push to switch between available sources connected to your Entertainment Machine.

MENU
Displays on-screen menus.

RECORD, PAUSE
Control the functions on your VCR.

ARROW KEYS
Use to select and adjust on-screen menu choices.

POWER
Turn your Entertainment Machine and all other programmed equipment on or off.

TRAKBALL
Clicking and rolling activates and moves the on-screen selector arrow (pointer). See page 12 for on-screen menu operation. See page 38 for programming remote.

FLSHBK (FLASHBACK)
Return immediately to the last channel viewed.

CHANNEL UP/DOWN
Scroll through your available channels.

NUMBER KEYPAD
For direct channel selection and programming functions.

ENTER
Push to accept menu choices or after channel numbers for faster transfer.

PIP SNAPSHOT
1st push, freezes main picture in PIP inset. 2nd push, begins normal PIP operation. 3rd push, removes PIP inset.

QUIT
Leaves programming menus and clears screen of displays. Swaps PIP and Main audio sources with PIP on.

REW, FFWD, PLAY, STOP
Control the functions on your VCR.

Note: You can still control your VCR in TV mode.

TRK 4000
124-219-01 221-1282

Mini glossary

MODE   The device that the remote control is currently controlling; TV, VCR, Cable Box, Aux 1, or Aux 2.

3376-0

Front Panel

1 To access the menus, press MENU on the panel. Cycle through the various menus by pressing MENU repeatedly.

2 Press SELECT repeatedly to high-light and select the option you want to modify.

3 Press either Right or Left on the ADJUST key to modify the option you have chosen.

4 Press ENTER to return to normal TV viewing.
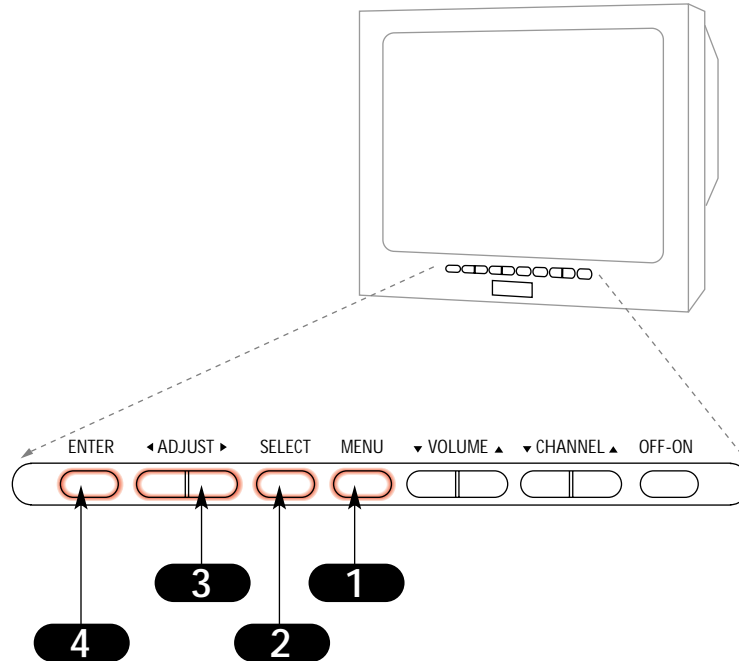
Refer to the various menu pages on how to use the on-screen menus.

The CHANNEL and VOLUME buttons work just as they do on your remote control.

Lost the remote? Call Zenith at 1-800-365-1690 to ask about purchasing a new one.

ENTER ◄ ADJUST ► SELECT MENU ▼ VOLUME ▲ ▼ CHANNEL ▲ OFF-ON
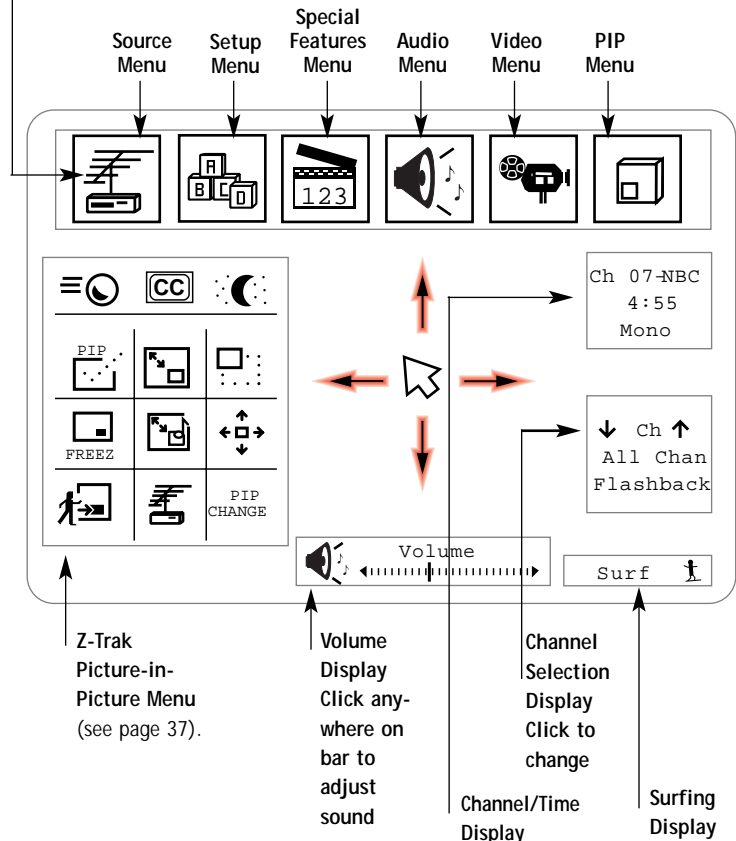
3   1

4   2

3376-0

Using Your Trakball Remote

Learn the easiest way to get at every option on your Entertainment Machine!

1 Make sure your Entertainment Machine is on.

2 Just click the Trakball by pressing gently with your thumb, and an arrow-shaped pointer will appear on-screen.

3 You can now move the pointer anywhere on the screen by rolling the Trakball with your thumb. As you move it from side to side, top to bottom, different menus will instantly appear.

4 You can use and adjust any of these options by rolling the pointer so the index finger is touching the icon for the menu or option you want.

5 Click the Trakball again, and the option or menu is selected.

6 When you're finished, either wait a few seconds and the pointer will disappear, or move the pointer so that it isn't touching any icons or menus, and click again.

The point-and-click interface does everything buttons do, just like your computer mouse. Click words on-screen instead of pressing the button. Or click on items instead of scrolling with the arrow keys.

Typical Icons Menu Selection Bar, which lets you access the Source menu (see page 21), the Setup menu (see pages 13, 22-26), the Special Features menu (see pages 27-31), the Audio menu (see page 32), the Video menu (see page 33), and the Picture-in-picture menu (see page 34).

Source Menu | Setup Menu | Special Features Menu | Audio Menu | Video Menu | PIP Menu

Ch 07-NBC
4:55
Mono

↓ Ch ↑
All Chan
Flashback

Volume

Surf

Z-Trak Picture-in-Picture Menu (see page 37).

Volume Display Click anywhere on bar to adjust sound

Channel/Time Display

Channel Selection Display Click to change

Surfing Display

Mini glossary

POINTER   The image of the selector arrow that appears on-screen and points to the option you want to work with.

ICON   A small picture on your screen that represents a function or menu item.

3376-0

Basic Television Operation

Introducing you to the basics of your Entertainment Machine

Source

Pressing the Source key on the remote switches between the Video inputs and Cable/Antenna input. The Time/Channel display will read "Video" in place of a channel number if A/V inputs are selected as the picture source.

Cable/Antenna Input: This setting allows you to change cable or antenna channels and to view videocassettes on channel 3 (or 4) in mono sound.

Video Input: This setting allows stereo playback of videocassettes. The television cannot change channels in the Video mode, but the VCR can.

```
Ch 12-MTV          ◄───── Channel/Label or Video (Indicates Source)
10:55              ◄───── Time
Stereo             ◄───── Audio Mode

♪ PIP Ch 30-ABC    ◄───── PIP Channel & Label
                           (Musical Note Shows Source of sound)
```
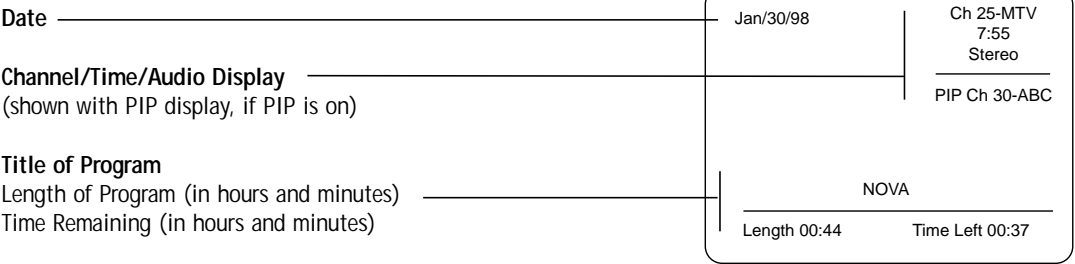
To view the current input source, press ENTER on your remote. The Time/Channel display should appear in the upper-right hand corner of the screen. If the display reads 'Video,' then the source is an A/V input. If the display reads a channel number, then the source is Cable/Antenna.
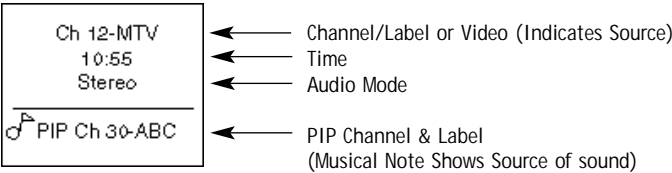
XDS Data Feature

XDS = Extended Data Service
Some public broadcasting stations are including on the signal they provide additional information (data) about the program. This data (see example) appears on your TV screen when you press ENTER; if the broadcaster is adding XDS data.

Date

Channel/Time/Audio Display
(shown with PIP display, if PIP is on)

Title of Program
Length of Program (in hours and minutes)
Time Remaining (in hours and minutes)

```
Jan/30/98              Ch 25-MTV
                          7:55
                        Stereo

                      PIP Ch 30-ABC


              NOVA

Length 00:44      Time Left 00:37
```

Example of an XDS Data Display

Showing XDS Data
Select a channel. Press ENTER to display XDS data; if available.

XDS Channel Labels
XDS can provide a channel label automatically. For the programs to display an XDS channel label, select the dashes (- - - -) for that channel from the Channel Labels option in the Special Features Menu.

At this printing, XDS data is only being provided by some public broadcasting stations; and as a result, it is only available on some channels.

You must set the Clock in the Setup Menu before the time will appear on the Channel/Time Display or on the XDS display.

Introducing you to the basics of your Entertainment Machine

Basic Television Operation (cont'd)

Changing Channels

NUMBER Key Pad: To skip to any channel, enter the number of the channel using the NUMBER key pad, then press ENTER.

CHANNEL HIGHER/LOWER: Press Channel arrows to change the channels. Autoprogram will have found all channels available.

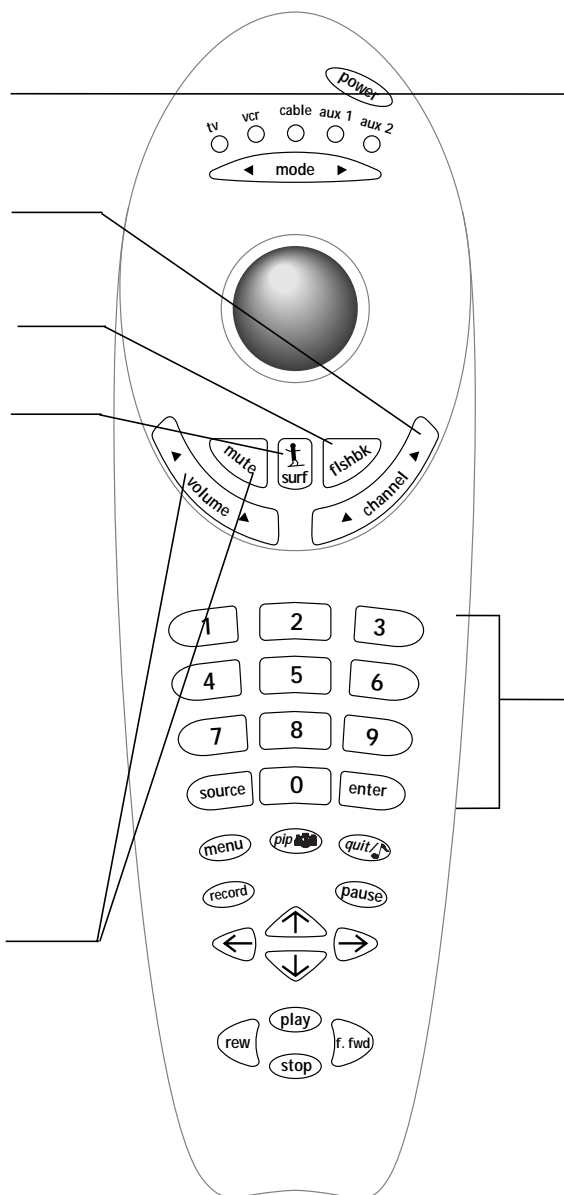FLASHBACK: To instantly return to the last channel viewed, press FLASHBACK. *(Antenna/Cable source only)*.

SURF: Switches between the primary channel selection and your customized surf channel selections. The surf mode icon will appear in the lower-right corner of the screen when you change channels. Press SURF to turn surf On, press again to turn surf mode Off.

Surfing 人

This is while the source is set to Antenna/Cable. For any other source, such as a VCR, the Main Picture channel changing will be controlled by that equipment.

Audio

Volume Up/Down: To adjust the volume level, press the volume arrows. To silence your TV instantly, press MUTE once to soften the volume, press again to turn sound off. To get the sound back, press MUTE again.

Basic Television Operation (cont'd)

There are a number of ways you can choose to integrate your Entertainment Machine with the rest of your equipment. Channels can be changed using the television, the VCR, or the cable box, with advantages to each.

USING THE TELEVISION AS THE TUNER preserves all your channel labels (not available on some models). It also reduces the number of keys on the remote control you need to worry about. (One device, one remote to learn.)

USING THE VCR AS THE TUNER has the advantage of simplifying the recording process. If the VCR is tuned to channel seven, then the VCR will record channel seven.

USING THE CABLE BOX (if you have one) to change the stations sometimes has an advantage, too, especially if your cable provider requires you to use their cable box to descramble their stations.

Help on combining your Entertainment Machine with more equipment.

Setting Up a Tuner

1 Based on the advantages listed above, decide what device you want to use as the tuner.

2 Connect the antenna or cable source to the input of your tuner. (If you chose your television as the tuner, then you're done. Go watch your Entertainment Machine.)

3 Connect the output of your tuner to the input of the next device.

4 If you used A/V cables for step 3, set the "next device" to Video input. If you used an RF coaxial cable in step 3, then tune the "next device" to match the output channel of your tuner (usually channel 3 or 4).

5 Repeat steps 3 and 4 until you reach your Entertainment Machine. Then enjoy!

Mini glossary

TUNER   The television, VCR, or cable box that you choose to change channels with.

3374-O

On-Screen Menus

Descriptions of all the menus on your Entertainment Machine.

Using the Menu key on your remote, you can access all the menus below.

| Menu Name		Go to page
SETUP MENU	Adjusts the basic characteristics of your Entertainment Machine.	
Auto Program	Automatically finds and stores active channels to flip through using Channel Up/Down.	13
Add/Del/Surf	Manually picks and chooses which active channels will appear when flipping through using Channel Up/Down	22
Clock Set	Sets the time.	23
Captions	Turns closed captioning on, off, or sets it to come on automatically when the television is muted.	24
Caption/Text	Chooses the captioning or text options for your Entertainment Machine.	24
Language	Picks the language you want your on-screen menus to appear in.	25
Background	Makes the background for on-screen menus transparent or opaque.	26
SPECIAL FEATURES	Goes beyond basics and customizes your Entertainment Machine's functions.	
Timer Setup	Programs a time for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time.	27
Channel Labels	Labels your channels with their network names (ABC, CBS, HBO, etc.).	28
Parental Control	Allows parents to block any channel or A/V source for up to 99 hours, with the use of a password.	29
Data Source	Reserved for future use.	30
Auto Demo	Demonstrates the on-screen menus that control TV setup and operational features.	31
AUDIO MENU	Customizes the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Audio Mode, Front Surround, SoundRite, Speakers.	32
VIDEO MENU	Adjusts your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Color Temp, Picture Pref.	33
PIP MENU	Controls the appearance and size and of the PIP inset. Your options are: Color, Tint, Size.	34
SOURCE MENU	Chooses from the available sources for both the main picture and PIP.	21

3376-0

Source Menu

This menu is where you choose to watch your VCR, DVD, S-VHS VCR, etc.

Choose the sources for your main picture and PIP.

1 Press MENU repeatedly until the Source Menu appears on your screen.

2 Using the UP/DOWN arrows, select Main picture or PIP inset.

3 Using the LEFT/RIGHT arrows, choose the source for Main picture or PIP inset. The names will correspond to the jacks on the back of your TV. For example, if you have connected a VCR to the Video 1 jacks, then select Video 1 to watch that VCR.

4 Press ENTER to return to regular TV viewing.

Using PIP you can watch home movies and still scan for the big game.
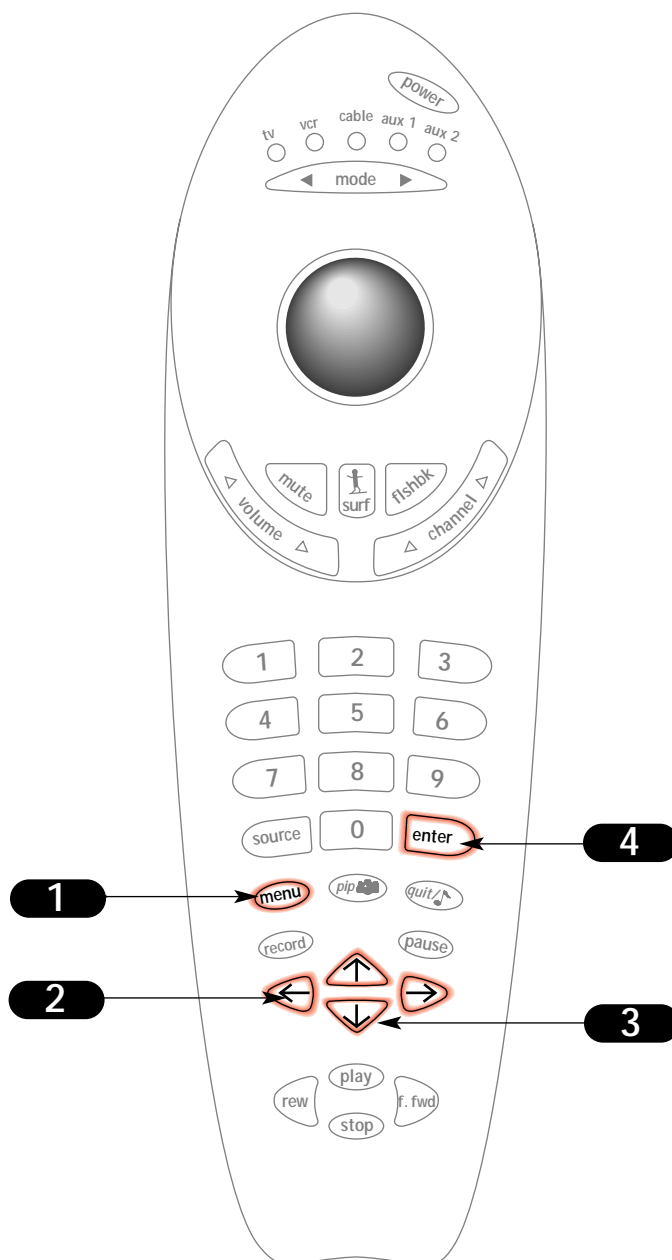
Mini glossary

SOURCE   The term for the equipment that provides audio and video information to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

3376-0

Add/Del/Surf

Create your
own channel
selection
for cooler
surfing.

1 Press MENU repeatedly on the remote so the Setup Menu appears.

2 Select Add/Delete/Surf menu using the UP/DOWN arrows.

3 Using either the NUMBER key pad or the CHANNEL UP/DOWN arrows on the remote, select a channel. (If adding a deleted channel, you will need to use the number pad.)

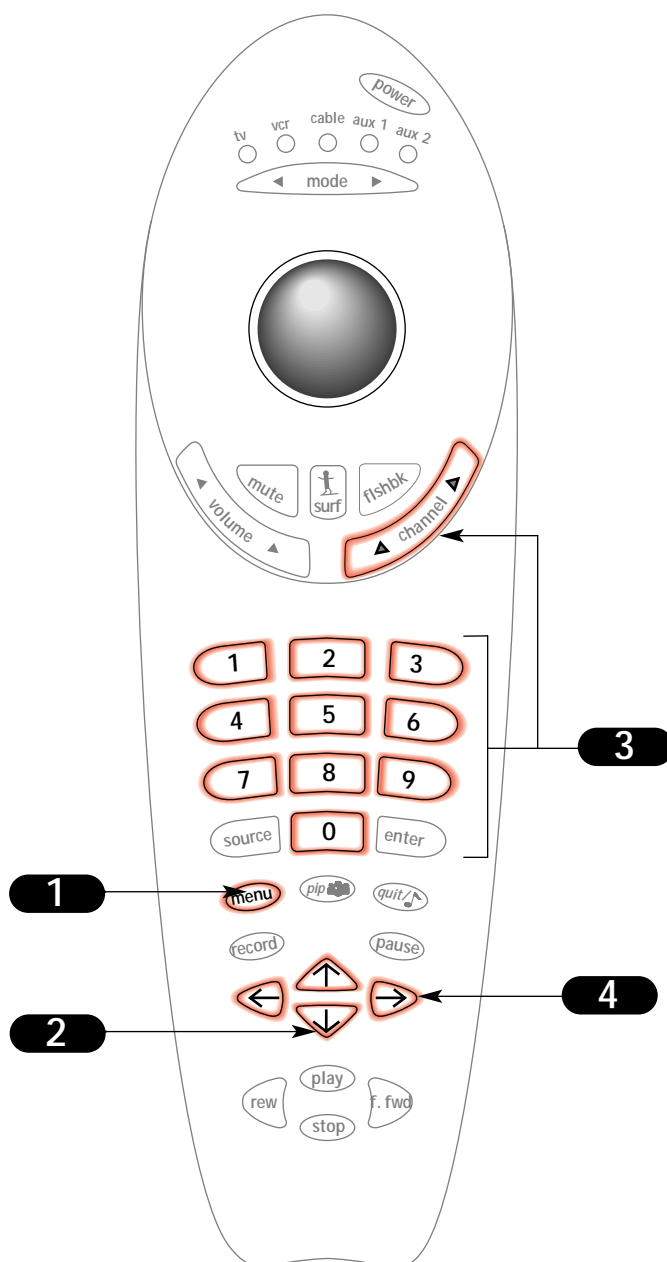**4** Using the RIGHT/LEFT arrows, pick whether that channel is Deleted, Added, or a Surf channel.

5 To continue, select another channel and repeat step 4. If you are finished, press ENTER or QUIT to return to TV viewing.

Push the SURF key to turn Surf channel selection mode on, press again to turn Surf mode off.

Surf Channels are automatically selected as Added too.

Mini glossary

ADD — This function lets you add new channels to list that you'll scroll through when using your remote.

DELETE — This function lets you remove channels that you don't watch from the list you'll scroll through.

SURF — The surf function creates a special list of your favorite channels. You can access this group of channels by pushing the SURF key on the remote.

3376-0

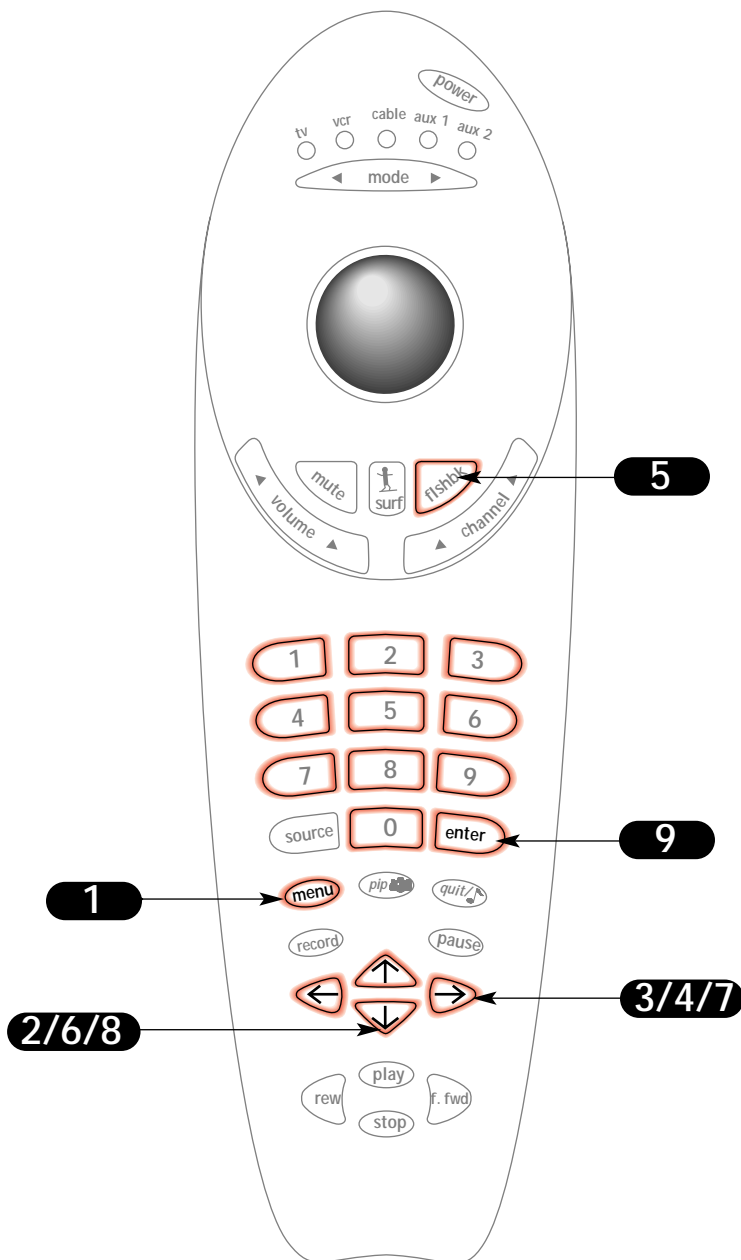## Clock Set

Set the clock on your entertainment machine

1 Press MENU repeatedly until the Setup Menu appears.

2 Using the UP/DOWN arrows, select Clock Set on your screen.

3 Press a RIGHT or LEFT arrow to access the Clock Menu.

4 Use the RIGHT or LEFT arrows to adjust the time.

5 Press FLSHBK to select AM or PM.

6 Use the UP or DOWN arrow to select Date Set.

7 Use RIGHT or LEFT arrow key to choose month, date, or year.

8 Use the UP or DOWN arrows to change the month, date, or year.

9 Press ENTER or QUIT to return to TV viewing.

You can use the NUMBER key pad to simply type in the time and date (AM and PM are still selected with the FLSHBK key).

You can use the trackball menus to set the clock and timer see page 12.

5

9

1

2/6/8

3/4/7

3376-0

Captions and Caption/Text

Turn closed captioning or text on, off, or have it appear automatically.

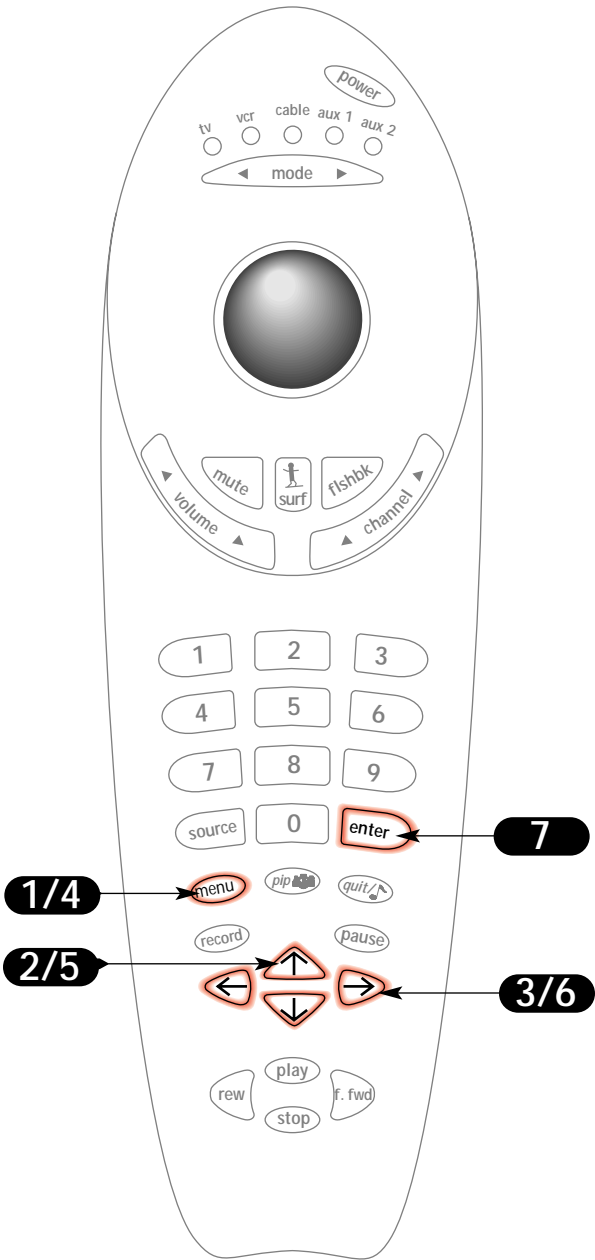**1** Press MENU repeatedly until the Setup Menu appears on your screen.

2 Using the UP/DOWN arrows, select Captions in the menu.

3 Use the LEFT/RIGHT arrows to choose whether you want the captions On, Off, or Caption When Muted, which sets captioning to come on automatically when you're Entertainment machine is Soft or Muted.

4 Press MENU repeatedly to select the Setup Menu again.

5 Use the UP/DOWN arrows to select Caption/Text in the menu.

6 Using the LEFT/RIGHT arrows, select from Caption 1 through 4 or Text 1 through 4 as the captioning used.

7 Press ENTER to return to normal viewing.

Choose Caption 1 to view the traditional Closed Captioning.

With the Trakball, go to the PIP display and click on "CC" to enter the Captions menu.
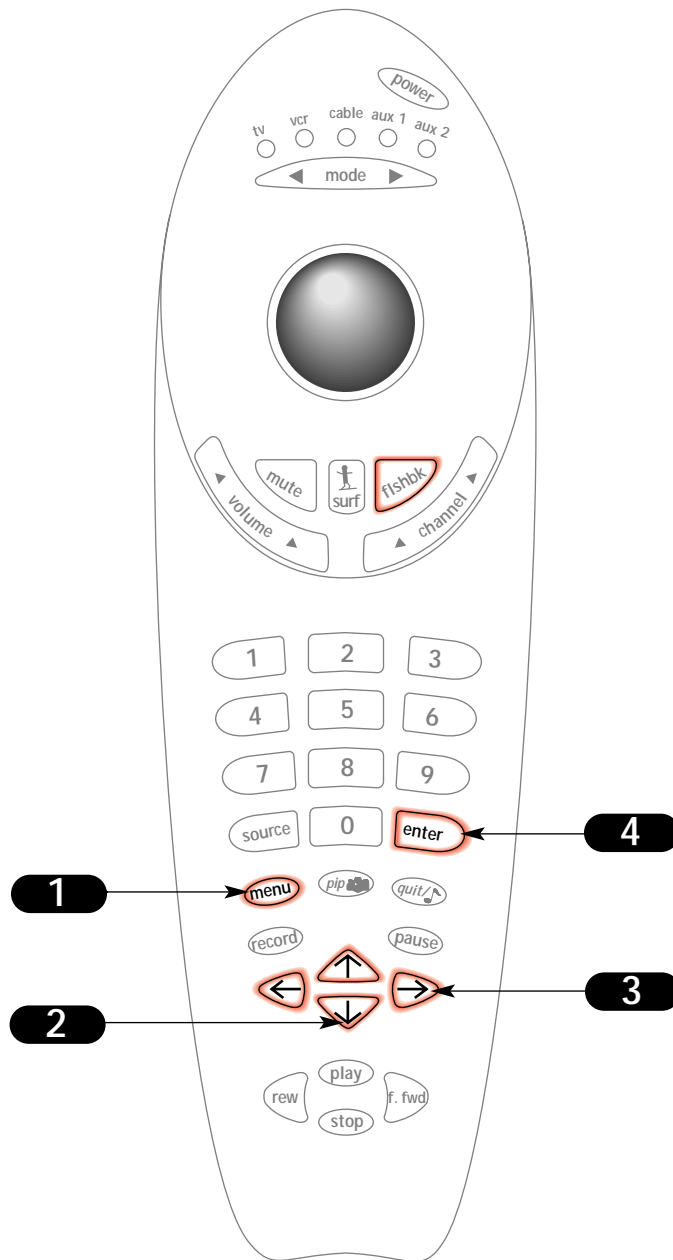
Mini glossary

CAPTION/TEXT A form of subtitling that writes out the dialog for your program.

3376-O

Language

Choose
what language
your
on-screen
menus
appear in.

1 Press MENU repeatedly until the
Setup Menu appears.

2 Using the UP/DOWN arrows,
select Language in the menu.

3 Press a RIGHT/LEFT arrow to
choose which language you prefer
by selecting from English,
Spanish, or French.

4 Press ENTER to return to normal
TV viewing.

power

tv   vcr   cable   aux 1   aux 2

◄ mode ►

mute   surf   flshbk

volume   channel

1   2   3

4   5   6

7   8   9

source   0   enter   **4**

1   menu   pip   quit/▲

record   pause

2   **3**

rew   play   f. fwd

stop

3357-o

Background

Customize the look of your on-screen menus.

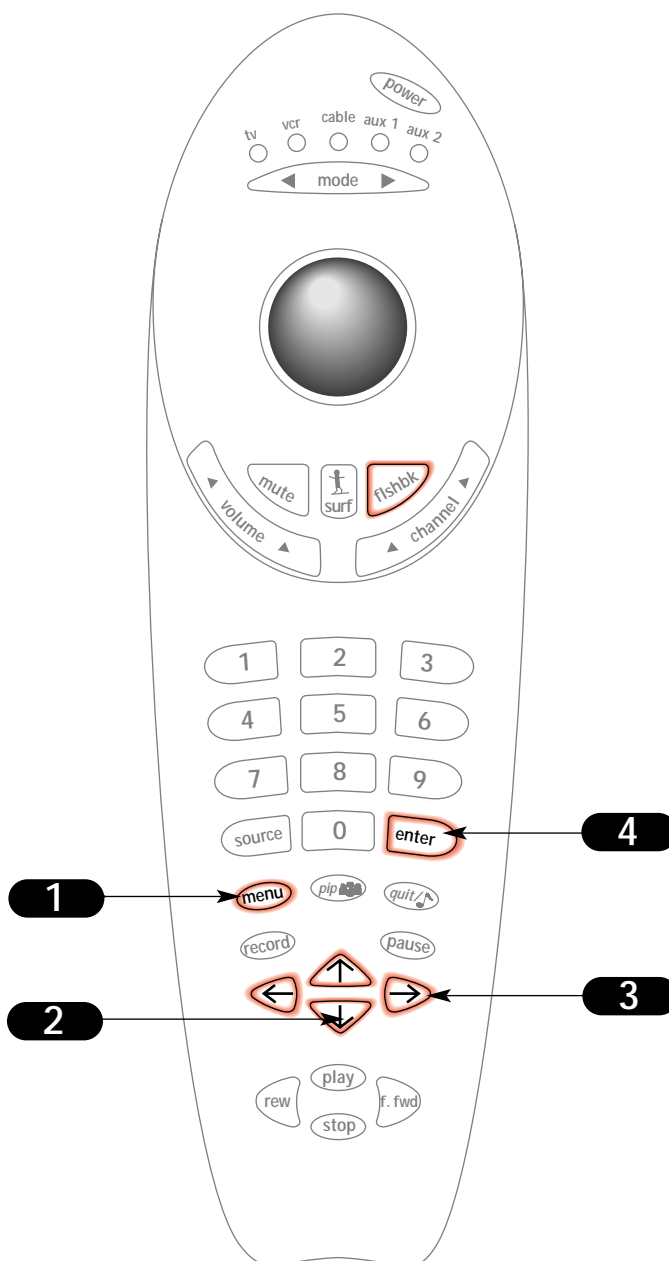**1** Press MENU repeatedly until the Setup Menu appears.

2 Using the UP/DOWN arrow keys, select Background in the menu.

3 Press a RIGHT/LEFT arrow to choose whether you want the opaque background On or Off.

4 Press ENTER to return to normal TV viewing.

3376-0

Timer Setup

Have your
Entertainment
Machine wake
up and go
to sleep
any time.

1 Press MENU repeatedly until the
Special Features Menu appears.

2 Using the UP/DOWN arrows,
select Timer Setup in the menu,
then press a RIGHT/LEFT arrow to
enter the Timer menu.

3 With the UP/DOWN arrows, select
Sleep Timer in the menu.

4 Using the RIGHT/LEFT arrows,
adjust the amount of time before
your Entertainment Machine shuts
itself off.

5 Repeat the above steps to set
the On Time, Off Time, and
On/Off Timer. Use FLSHBK to
select Am/PM.

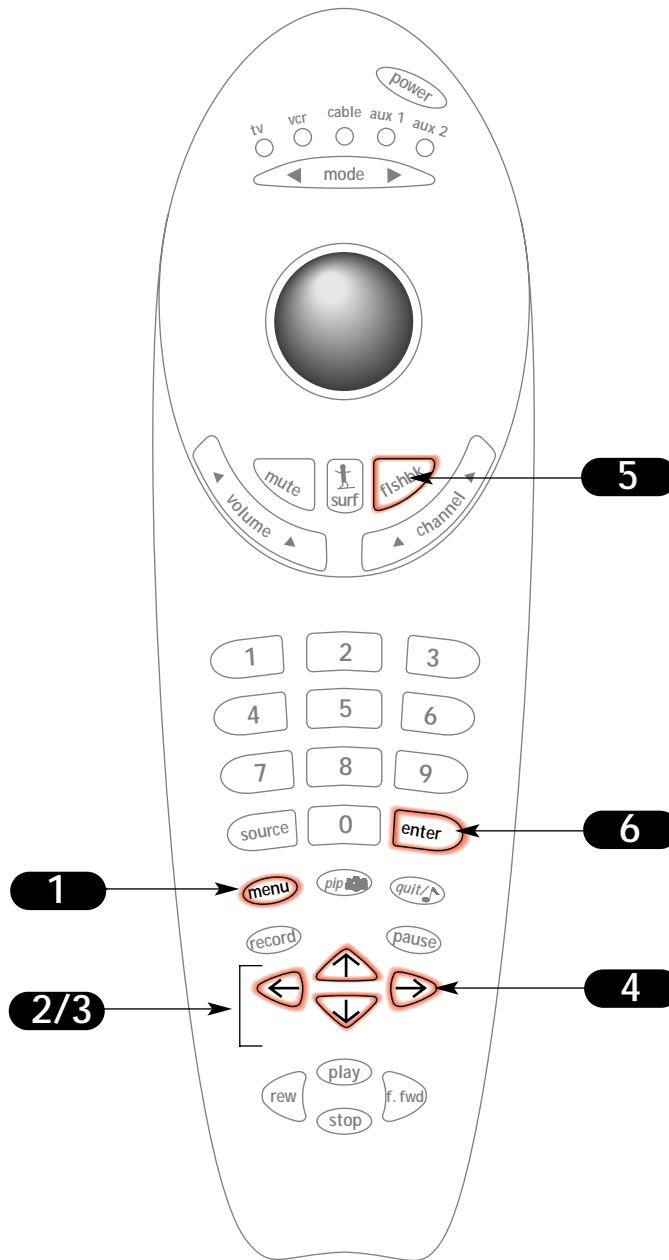**6** Press ENTER to return to
TV viewing.

*Use the number keypad to enter
On/Off timer numbers and FLSHBK
to select AM or PM.*

*The "On/Off Timer" option decides
whether or not the On or Off
time is observed, so an On or Off
Time must be set for the "On/Off
Timer" option to function.*

3376-0

Channel Labels

Choose preset labels for channels or create your own.

1 Press MENU repeatedly until the Special Features Menu appears.

2 Using the UP/DOWN arrows, select Ch. Labels in the menu.

3 Press a RIGHT/LEFT arrow to enter the channel label menu.

4 Using the number keypad, choose a channel number, press ENTER.

5 Choose a label for the channel by pressing the LEFT/RIGHT arrows repeatedly until the appropraite label appears next to the channel number.

6 Press ENTER to accept the label and return to regular TV viewing or enter another channel number to label.

Note: The (----) label indicates that your TV will accept the original, broadcast label, and (None) will block all labeling.

3376-0
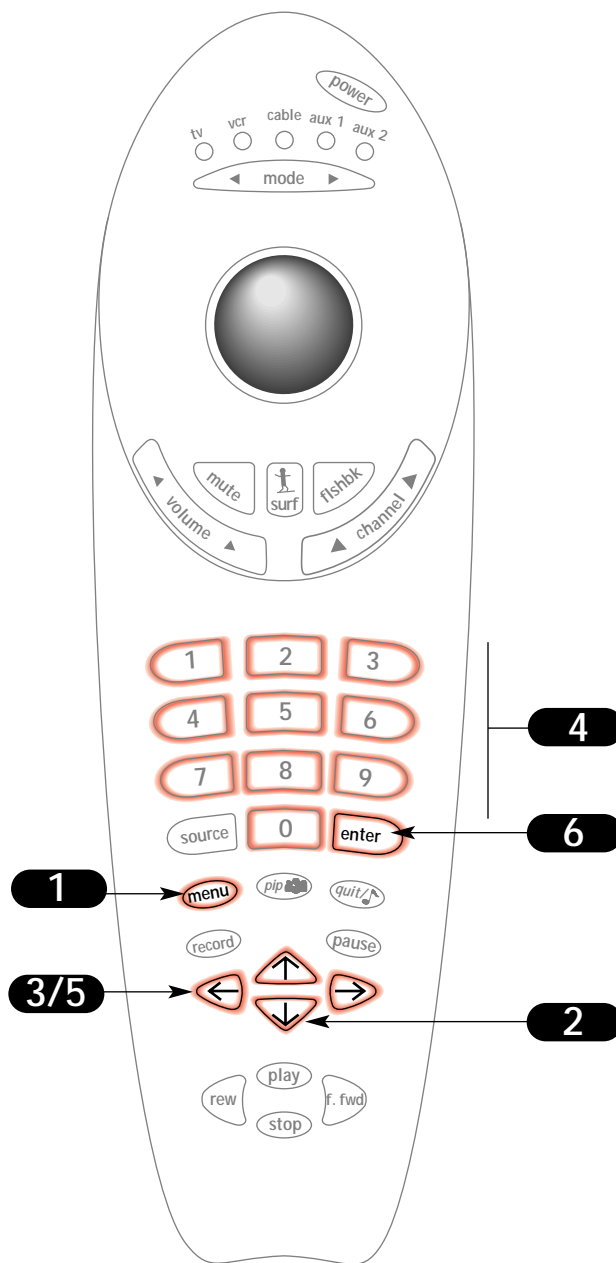
Parental Control

Make sure
you know
what your
kids aren't
watching.

1 Press MENU repeatedly until the Special
Features menu appears.

2 Using the UP/DOWN arrows, select
Parental Ctl. in the menu.

3 Press a RIGHT/LEFT arrow to enter the
parental controls (Parental Ctl.) menu.

4 With the UP/DOWN arrows, select:
Block Ch.; to block individual channels.
Block Video; to block Video sources.
Set Hours; to set hours block is active.
Set Password; to enter 4-number code.
Lock On/Off; to turn block On and Off.

5 Use the RIGHT/LEFT arrows to adjust
options.

6 Press ENTER when finished.

*Use the number keypad to choose
channels for the Block Channel
option and also to enter your
4-number password.*

3376-0
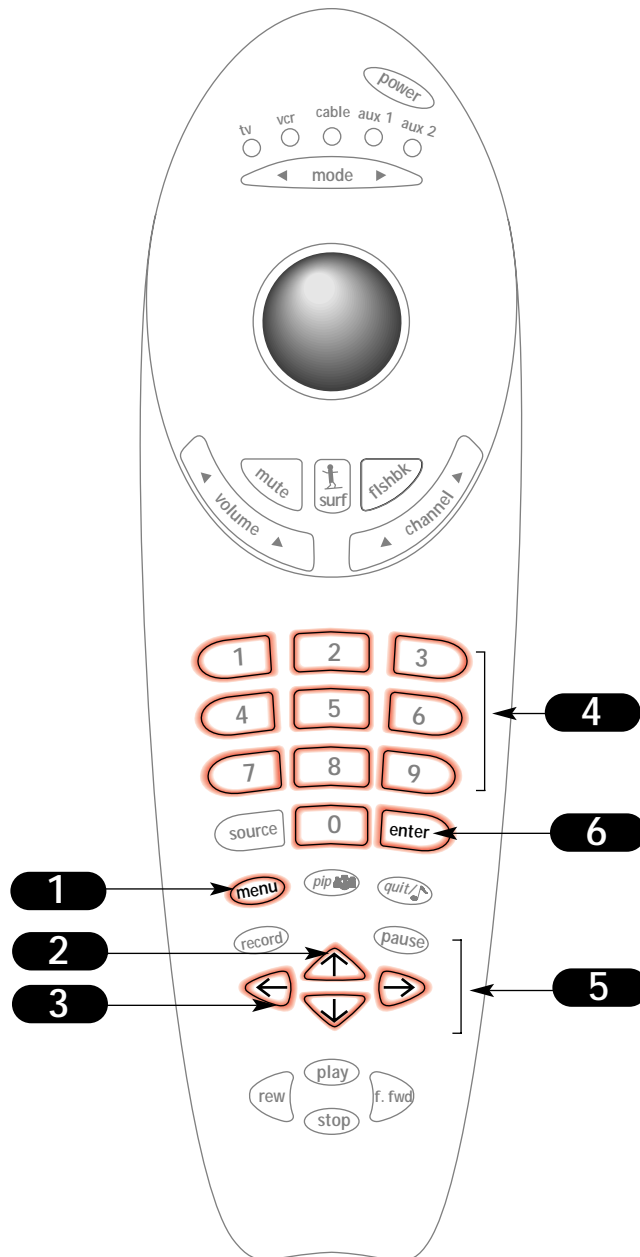
Data Source (Reserved for future use)

Reserved for future use.

Note: This feature is reserved for future use, and will only appear in the Special Features Menu as an option if equipment is connected to the Data Port.

1 Press MENU repeatedly until the Special Features Menu appears.

2 Using the UP/DOWN select arrows on the remote control, select Data Source on your screen.

3 Press a RIGHT/LEFT arrow, to select a source for Data Port.
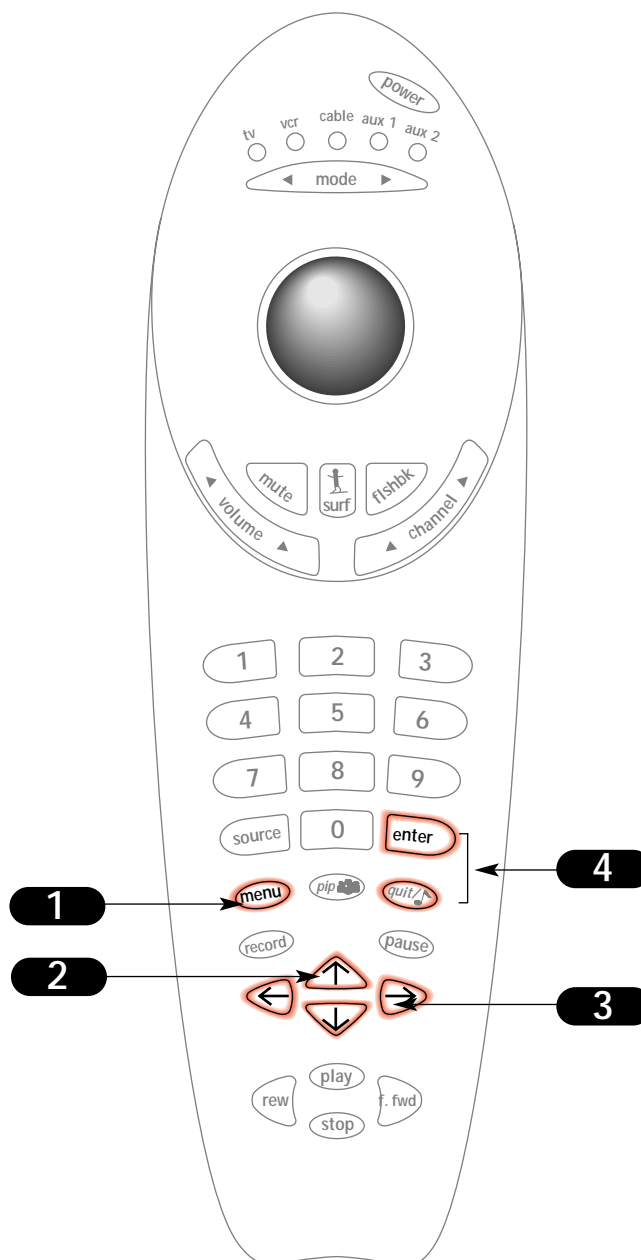
4 Press ENTER or QUIT to return to TV viewing.
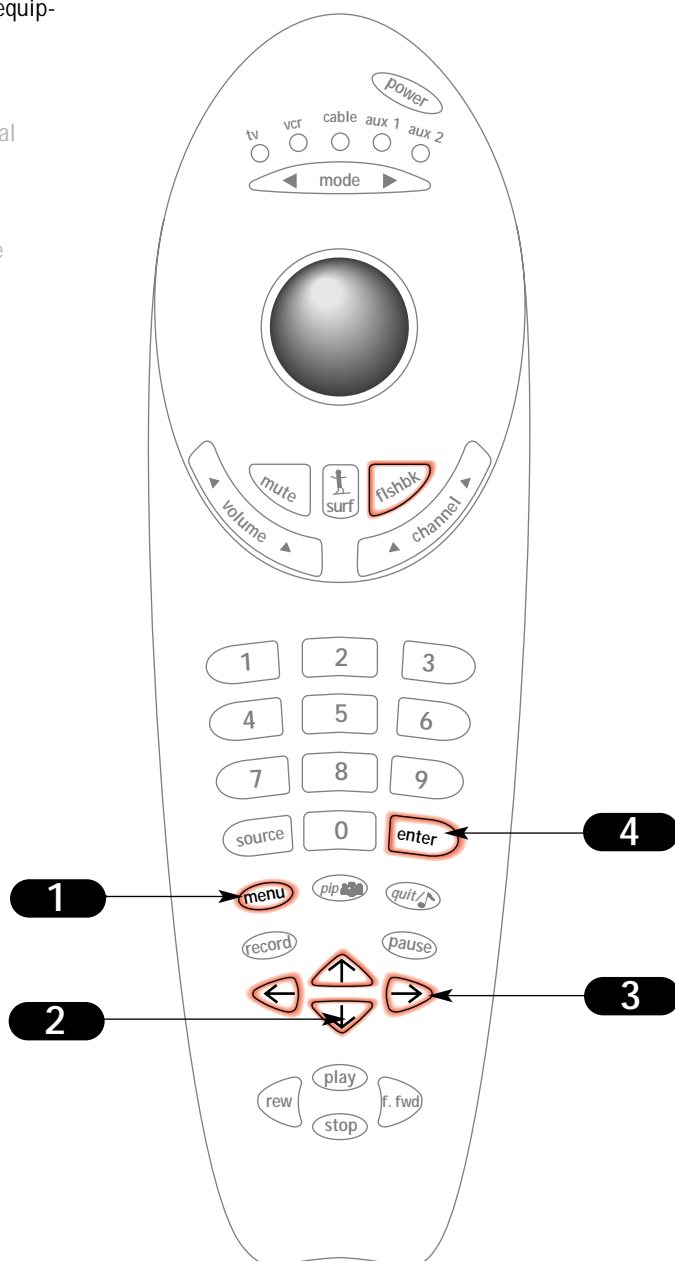
3376-0

Auto Demo

Your Entertainment Machine will show you all your menu options.

1 Press MENU repeatedly until the Special Features Menu appears.

2 Using the UP/DOWN select arrows on the remote control, select Auto Demo on your screen.

3 Press a RIGHT/LEFT arrow, to select whether you want Auto Demo on or off.

4 Press ENTER or QUIT to return to TV viewing.

Auto Demo will continually show you menus and displays your Zenith Entertainment Machine has, until it's turned off in the Special Features Menu.

Audio Menu

Customize the sound on your Entertainment Machine.

1 Press MENU repeatedly until the Audio Menu appears.

2 Using the UP/DOWN arrows on the remote control, select the setting you want to change. Choose from:

- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Audio Mode**: Choose from stereo sound, mono, or SAP.
- **Front Surr**: Turn the front surround sound speakers on or off.
- **SoundRite**: Scans for changes in sound level during commercials, then adjusts the sound to match your current level.
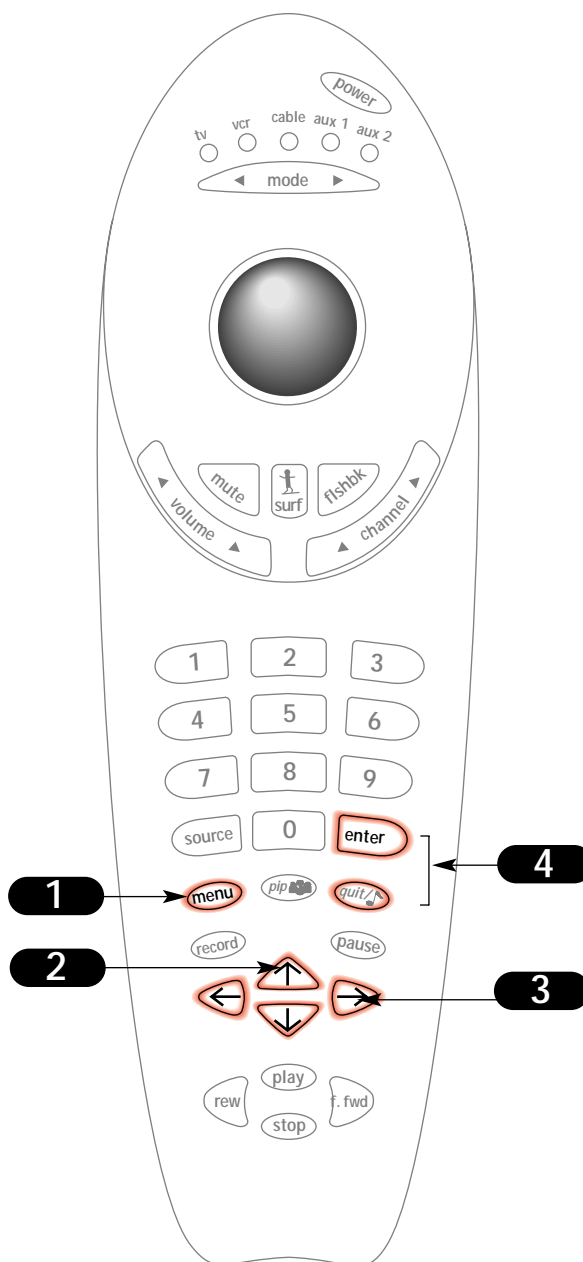- **Speakers**: Turn the regular speakers on or off.

3 Use the RIGHT/LEFT arrows to adjust the sound setting to whatever you prefer.

4 Press ENTER or QUIT to return to TV viewing, or press the UP arrow to return to the Audio Menu to adjust another option.

Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.

Mini glossary

|	
STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.
2ND AUDIO/SAP	Second Audio Programming (SAP) is another, separate, audio signal available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

3376-0

Video Menu

Customize the picture quality on your Entertainment Machine.

1 Press MENU repeatedly until the Video Menu appears.

2 Using the UP/DOWN arrows, select the menu option that you want to change.
Your options are:

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjusts levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raises or lowers the definition of the picture. The lower the level, the softer the image will appear.
- **Color Temp:** Adjusts the color qualities of the entire picture at once: Cool and Warm.
- **Picture Pref:** Chooses from a range of options depending on your viewing situation. Custom uses the settings you have manually chosen, while Preset restores the levels to their original settings.

3 Press a RIGHT/LEFT arrow to adjust the option you have selected.

4 Press ENTER to return to regular TV viewing.

Someone left the picture looking terrible? Just choose Preset under Picture Prref to get the regular picture back quickly.

3376-O
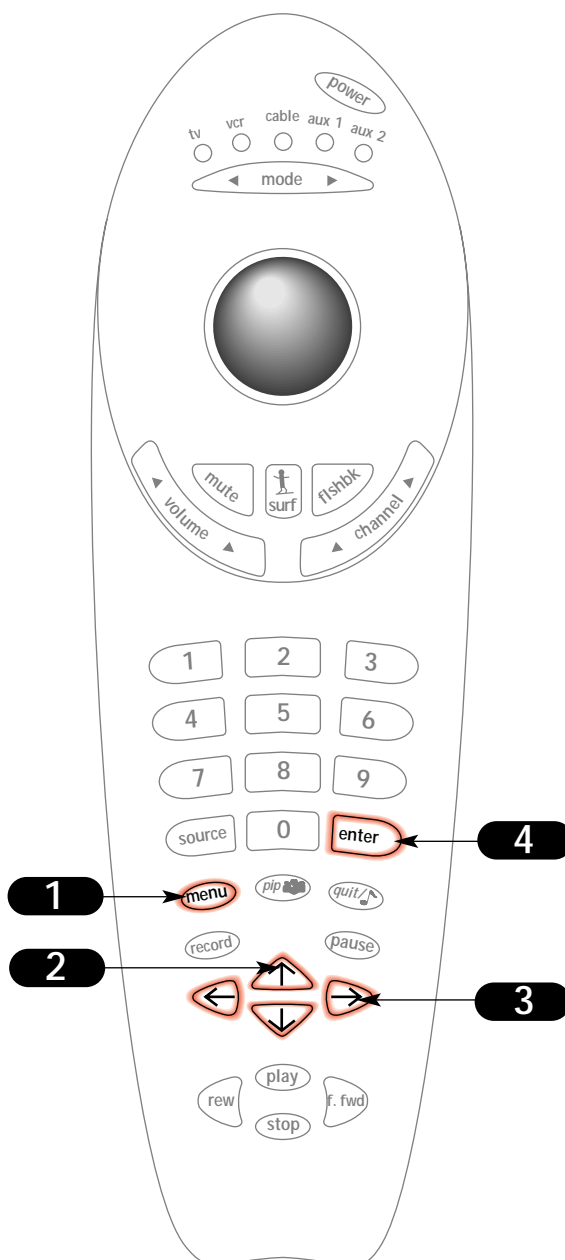
PIP Menu

Control the picture qualities of your PIP inset.

1 Press MENU repeatedly until the PIP Menu appears.

2 Using the UP/DOWN arrows, select: Color, Tint, or Size in the menu.

3 Press a RIGHT/LEFT arrow to adjust the option.

4 Press ENTER to return to regular TV viewing or use UP/Down arrows to select another PIP option to adjust.

All the rest of the PIP options are available using your Trakball. See page 37 for a full description.

To turn PIP on, press PIP twice.

Mini glossary

PIP   This is the most common way to refer to the Picture-In-Picture (PIP) option.

3357-o

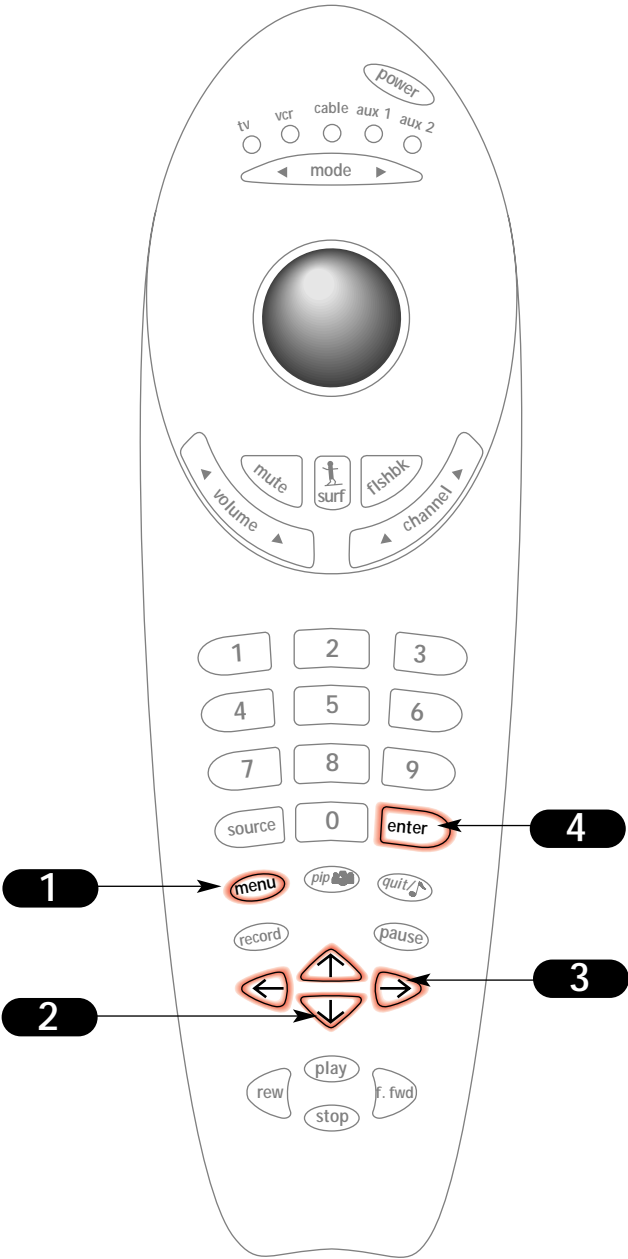## PIP Overview

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture.

Normally you would need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Your Entertainment Machine eliminates that need by giving you two tuners on one TV. PIP is always available, no matter what equipment you have.

Don't want to miss any of the big game, but hate commercials? Just put the game in the PIP inset, and surf your favorite channels using the main picture.

Picture-in-Picture   Main Picture

WORKING WITH PIP

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. Set the main screen source to Antenna/Cable, then set the PIP source to Antenna/Cable, as an example. This can be adjusted under the Source menu (see page 21).

PIP can be used in any picture mode. Put Antenna/Cable in the inset while you watch a tape. Attached to Video 1, have a DVD disc going in the PIP inset while you watch a tape on the main screen.

POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

1. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1, or 2 and you can watch the VCR and TV, swapping between the two.

2. You want to watch your favorite live program on Antenna/Cable on the main picture and when a commercial break appears, swap to the PIP inset which has a videotape in the VCR ready to play, or choose a different channel on Antenna/Cable.
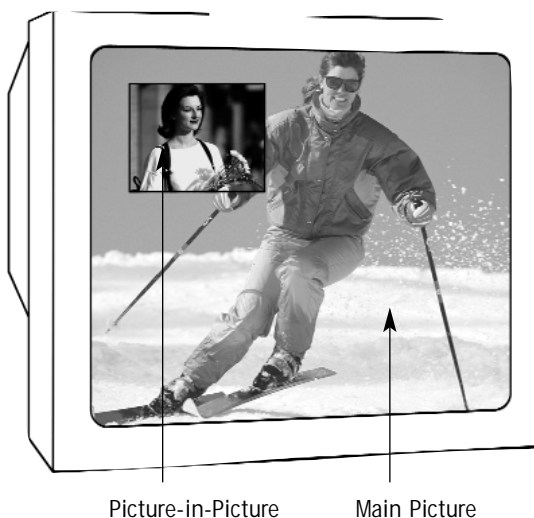
Mini glossary

TUNER   Any device that picks up broadcast signals and turns them into picture and sound.

SOURCE   Other equipment connected to the TV source inputs on the TV back connections panel; Video 1, or Video 2 for example.
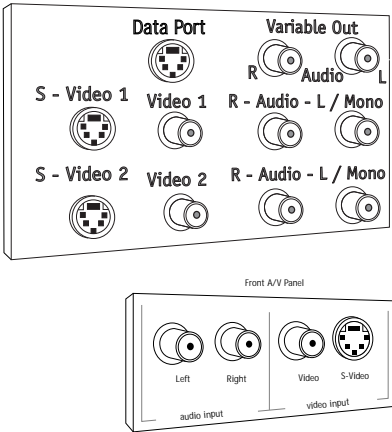
3376-0

PIP-Selecting Viewing Sources

Choosing which source to watch for main screen and PIP inset.

1 Press PIP to place the PIP inset on the main screen. Press PIP again. Press Source to switch input source for the PIP inset.

2 Or, go to the Source menu, highlight PIP Source and use RIGHT/LEFT arrows to select PIP inset source. Highlight Main Source and use RIGHT/LEFT arrows to select main picture source.

For the Main Screen or PIP Inset Sources you can use any input jack.

Where sources are connected

Data Port   Variable Out
                   R Audio L
S – Video 1   Video 1   R – Audio – L / Mono
S – Video 2   Video 2   R – Audio – L / Mono

Front A/V Panel

Left   Right   Video   S-Video
audio input   video input

You can use any input source for the PIP inset that is connected to the Front or Back TV connections panel. (Antenna/Cable, Video 1, or Video 2.) Note: If you used the S-Video 1, or the S-Video 2 input, S-VHS 1, or S-VHS 2 will appear as available sources instead of Video 1, or Video 2.

If no equipment is connected to a source you select for the PIP inset, or if it is turned Off, the PIP inset will be black.

Camcorder

VCR

S-Video VCR

DVD Player

Other
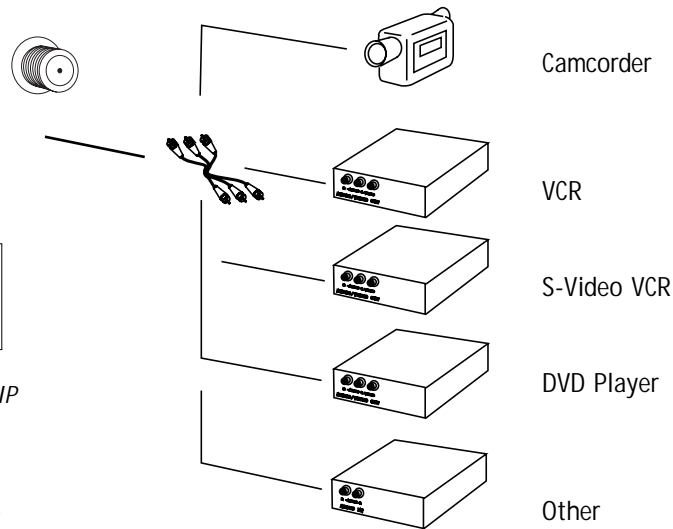
Examples of the types of equipment you can connect to your TV
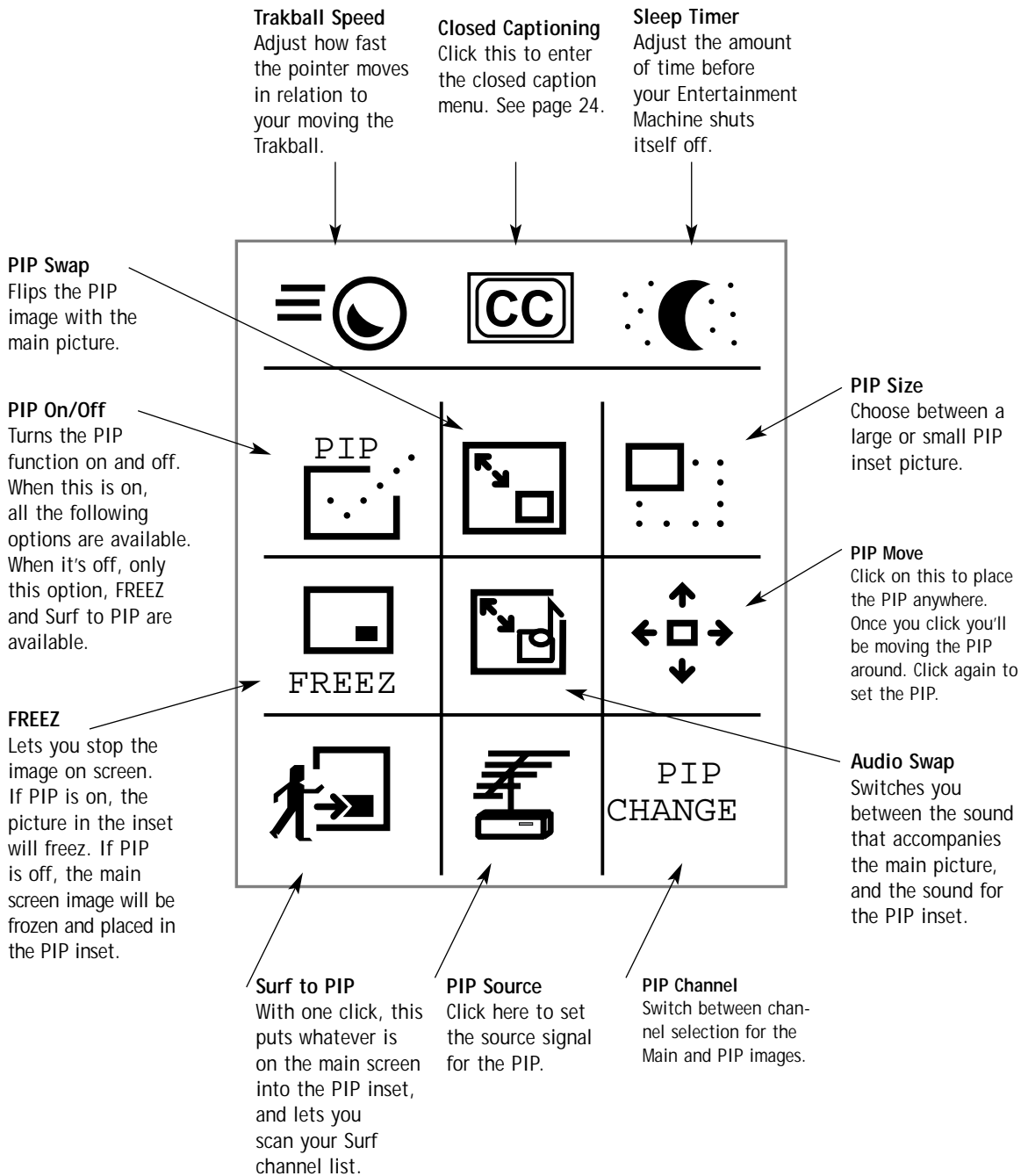

Mini glossary

SOURCE   Equipment connected to the back connections panel jacks on the TV.

MAIN SOURCE   Connection or equipment providing the picture and sound for the main picture.

PIP SOURCE   Equipment providing the picture for the PIP inset.

3374-0

PIP MBR Z-Trak Menu

The PIP trackball functions can all be found in the on-screen menu that appears when your roll the pointer to the left side of the screen.

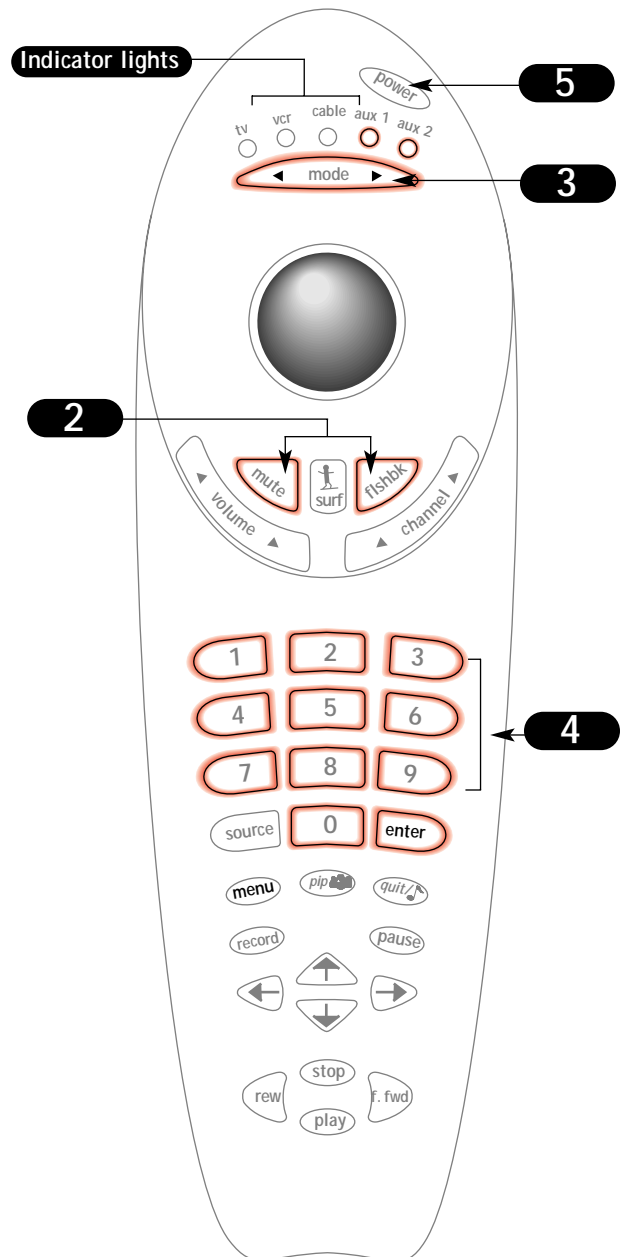Getting the most from the PIP function with your MBR Z-Trak remote.

Trakball Speed
Adjust how fast the pointer moves in relation to your moving the Trakball.

Closed Captioning
Click this to enter the closed caption menu. See page 24.

Sleep Timer
Adjust the amount of time before your Entertainment Machine shuts itself off.

PIP Swap
Flips the PIP image with the main picture.

PIP Size
Choose between a large or small PIP inset picture.

PIP On/Off
Turns the PIP function on and off. When this is on, all the following options are available. When it's off, only this option, FREEZ and Surf to PIP are available.

PIP Move
Click on this to place the PIP anywhere. Once you click you'll be moving the PIP around. Click again to set the PIP.

FREEZ
Lets you stop the image on screen. If PIP is on, the picture in the inset will freez. If PIP is off, the main screen image will be frozen and placed in the PIP inset.

Audio Swap
Switches you between the sound that accompanies the main picture, and the sound for the PIP inset.

Surf to PIP
With one click, this puts whatever is on the main screen into the PIP inset, and lets you scan your Surf channel list.

PIP Source
Click here to set the source signal for the PIP.

PIP Channel
Switch between channel selection for the Main and PIP images.

3376-0

Operate your equipment with the MBR Z-Trak.

Programming the MBR Z-Trak

1 Select the equipment you want to program, then turn to pages 39-40 to find the programming code appropriate for the type and brand of equipment. Make sure the equipment is turned on.

2 Point the MBR Z-Trak remote at the piece you're programming, and press MUTE and FLSHBK at the same time. Hold until one of the mode indicator LEDs lights.

3 Use the MODE Right/Left button to select the appropriate mode for your equipment.

4 With the Number Keypad, enter the three digit code you found in step 1 and press ENTER. If the code is accepted, the mode indicator LED will blink three times. If it is not accepted, the LED will not blink.

Note: The TV, and VCR, modes will only accept codes for those types of products. The CABLE, AUX 1, and AUX 2 modes will accept codes for any kind of product.

5 Push the POWER button to turn off the equipment. If nothing happens, repeat the process from step 1, and try the next code number.

To get out of Programming before you enter a code, just press the QUIT button.

Indicator lights

3357-O

Programming Codes

TVs

Brand	Codes
Admiral	116 121 130 133
Akai	104
Amark	103 146
AOC	104
Bell + Howell	121
Broksonic	131 136
Candle	139
Centurion	119
Citizen	121 139
Contec	141
Coronado	103
Crown	103
Curtis Mathes	116 119 121
Daewoo	149 159
Daytron	119
Elektra	121
Emerson	103 104 123 124 131 136 145 176
Fisher	109 118
GE	106 107 114 116 117 161
Goldstar	103 104 119 147 184
Hitachi	102 103 121 129 163
Inteq	101
JC Penney	104 110 114 117 119
JVC	125 132 164
KMC	103
KTV	103 104 138
Kurazai	121
LG	184
Lodgenet	121
Logik	121
LXI	119 133 137
Magnavox	103 112 113 117 119 127 128 130 139 165
Majestic	121
Marantz	104 120 155
Megatron	146
Memorex	121
MGA/Mitsubishi	104 119 120 130 133 140 155 169 178
Montgomery Ward	103 104 105 113 114 119 121 130 133
NEC	104 119
Orion	176
Panasonic	106 107 160 166
Philco	103 104 112 113 139
Philips	112 113
Pioneer	135
Portland	103
ProScan	116 157 162 167
Quasar	106 107
RCA	104 116 126 157 161 162 167 168
Realistic	105 123 124
Sampo	119
Samsung	103 119 134 141
Sanyo	108 109 118
Scott	119 124
Sears	103 108 109 110 111 118 134
Sharp	103 105 122 133 137 156 169
Signature 2000	103 104 105 113 114 119 121 130 133
Sony	115 143 151 170
Soundesign	139
Sylvania	112 113 117 119 127 128 139
Tatung	106
Teknika	103 112 121 124 139
Telerent	103 121
Toshiba	110 111 134 171
XR-1000	121
Yorx	119
Zenith	101 142 149 177
Zenith StarSight	175

TV/VCRs

Brand	Codes
Adventura	154
Broksonic	182
Emerson	158
Daewoo	148
Funai	154
Goldstar	153
Hitachi	154
LXI	154
Magnavox	173 181
Panasonic	174
RCA	179
Samsung	180
Sansui	182
Sharp	179
Sylvania	154
Symphonic	154
XR-1000	154
Zenith	153 154 172 182 183

VCRs

Brand	Codes
Admiral	208 261
Adventura	231
Aiwa	231
Akai	223 238 241
Audio Dynamics	202 218 206 247
Broksonic	221 226 233 250 255
Canon	214
Citizen	209
Craig	212
Criterion	239
Curtis Mathes	214
Curtis Mathes	259
Daewoo	244 246 248 254
Daytron	236 246
DBX	202 218
Emerson	203 209 221 223 226 233 235 243 250
Fisher	211 212 213 247
Funai	231
GE	214 216 220
Go Video	256 262 263 275
Goldstar	209 273
Hitachi	215 231 257
Instant Replay	214 227
Inteq	273
JC Penney	214 215 218 227
JVC	202 224 225 258 268
Kenwood	202
Logik	239
LXI	209 231
Magnavox	207 214 231
Marentz	207 218
Marta	209
Memorex	206 212 214 231
Mitsubishi	204 222 252 264
Montgomery Ward	208 214 216 219 231 249
Multi Tech	239
NEC	202 218
Optimus	208 209 259
Orion	233 250
Panasonic	214 251 259
Pentax	215
Philco	207 214
Philips	207 214 227
Pioneer	210 215
Portland	246
ProScan	216 260
Quasar	214 259
RCA	215 216 220 227 240 242 249 260 267
Realistic	206 208 212 214 231
Samsung	220 230 238
Sansui	239
Sanyo	206 212 247
Scott	204 205 233 243
Sears	206 209 211 212 215
Sharp	208 261 272
Shintom	239
Signature 2000	208 214 216 219 231 249 261
Sony	232 274
Sony Beta/VHS	237
SonyVideo8	217
Sylvania	207 214 227
Symphonic	231
Tashiko	209
Tatung	202
Teac	202 231
Teknika	209 234
Toshiba	205 215 271
Vector Research	204 218
XR-1000	239
Yamaha	202 218
Zenith	201 224 225 229 273
Zenith Beta	237

Programming Codes

Find the product codes you need to program your remote.

CABLE/SATELLITE/SET-TOPS

Allegro 358 362	JVC Satellite. 389	Primestar Satellite 388	Unika 348
Allegro A-B Switch 361	Kale Vision. 335	RCA DSS 373 394	Unika 362
Americast 383	Macom 321	Radio Shack 362	United Satellite . . 344
DISH Network Satellite 389	Macom Satellite . . 314	Regal 366	Universal. 358 362
GE 367	Magnavox 334	Regency 329	Vid Tech 340
Gemini 305 331 338	Magnavox DSS . . . 390	Samsung 335	Video Way 349
General Instrument 304 305 306	NSC 335 339 368	Scientific Atlanta 316 323 336	Viewstar 354 355 369
307 308 309	369 370	364	372
310 318	Oak 311 332 342	Sony DSS. 387	Zenith. 301
Hamlin 302 303 345	Panasonic 313 320	Sprucer 313	Zenith HT-2000. . . 353
365 366	Panasonic DSS . . . 386	Standard Comp . . . 335	Zenith PM 374
Hitachi DSS 392 393	Paragon (Zenith) . . 333	Stargate 379	Zenith Drake Satellite 312 330
Hughes DSS 392	Philips 347 350 352	Texscan. 339 356 371	Zenith HD Set-Top 385
Jerrold 304 307 308	354 355	Tocom. 317 318 346	Zenith N|C Set-Top. 384 395
309 310 318	Pioneer 315 343	Toshiba DSS 391	Zenith Satellite. . . 328 351 378
360 363 382			

LASER DISC PLAYERS

Denon. 402 403	Panasonic 405	Sanyo 401	Zenith. 401
Mitsubishi 403	Pioneer 402 403	Sony. 404	

AUDIO TAPE DECKS

Denon. 455	Kenwood 450	Pioneer 451 478	Technics DCC 454
Harman/Kardon. . . 456	Onkyo. 458	Sony. 452	Yamaha 453
JVC 457	Philips DCC 454	Technics 497	

AUDIO CD PLAYERS

Akai 409 424	Magnavox 421 422 433	Quasar 432	Sylvania 433
Carver. 510	434	Radio Shack 431 436 439	Teac 446
Crown 410	Mitsubishi 423 424	440 441	Technics 432 459
Denon. 411	NAD 425 426 447	RCA 437	Toshiba 447
Fisher 412 438	Nakamichi 427 428	Sanyo 438 439	Yamaha 448
Goldstar 460	NEC 429	Scott 440	Zenith. 460 461 498
Harman/Kardon. . . 413	Onkyo. 430	Sharp 441 442	501 502
JVC 415	Panasonic 431 432	Sony. 443 444 445	
Kenwood 412 416 417	Philips 421 433 434	Soundesign 461 498 501	
441	Pioneer 431 435	502	

DVD PLAYERS

Denon. 523 524	Panasonic 523 524	Proscan. 526	Toshiba 521
Marantz. 521	Philips/Magnavox 521	RCA 526	Zenith. 521
Mitsubishi 525	Pioneer 527	Sony. 522	

AUDIO TUNER AND AMPLIFIERS

Carver. 510	Marantz. 472 503	RCA 508	Soundesign 461 498 501
Denon. 462 463	Onkyo. 473	Realistic 480	502
Fisher 464 505	Panasonic 507	Sanyo 481	Teac 494 495
Goldstar 460	Philips 475 476	Scott 482	Technics 497 507 509
Harman/Kardon. . . 465	Philips/Magnavox 505	Sharp 483	Yamaha 496
JVC 466	Pioneer 477 478 479	Sherwood 487 488	Zenith. 460 461 498
Kenwood 468 469 506	Radio Shack 487 488	Sony. 489 490 491	501 502 504
		492	505

Zenith Key Functions by Mode

A complete list of key functions for your remote control.

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Box Mode Zenith Code 353	AUX 1 Mode Zenith Code 521 (DVD Player)	AUX 2 Mode Zenith Code 384 (N/C Set-Top)
MODE LEFT/RIGHT	Changes mode	Changes Mode	Changes Mode	Changes Mode	Changes Mode
POWER	TV Power On/Off	VCR Power On/Off	Cable Box Power On/Off	Aux Power On/Off	N/C Power On/Off
SURF	Surf On/Off	VCR AM/PM	Cable FC/Fav Ch	AUX Audio	N/C TV/Net
FLSHBK	TV Flashback, AM/PM	VCR Flashback	Cable Flashback	AUX Frame/Time	N/C Flashback
MUTE	TV Mute	TV Mute	TV Mute	TV Mute	N/C Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up	AUX Skip >>	N/C Channel Up
CHANNEL DOWN	TV Channel Down	VCR Channel Down	Cable Channel Down	AUX Skip <<	N/C Channels Down
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up	N/C Volume Up
VOLUME (LEFT)	TV Volume Down	TV Volume Down	TV Volume Down	TV Volume Down	N/C Volume Down
TRAKBALL (PUSH)	Trackball Push	Trackball Push	Trackball Push	Trackball Push	Activate N/C Trackball
TRAKBALL (MOVE)	Trackball Move	Trackball Move	Trackball Move	Trackball Move	N/C Trackball Move
1	TV Digit 1	VCR Digit 1	Cable Digit 1	AUX Digit 1	N/C Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2	AUX Digit 2	N/C Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3	AUX Digit 3	N/C Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4	AUX Digit 4	N/C Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5	AUX Digit 5	N/C Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6	AUX Digit 6	N/C Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7	AUX Digit 7	N/C Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8	AUX Digit 8	N/C Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9	AUX Digit 9	N/C Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0	AUX Digit 0	N/C Digit 0
PIP (Snapshot)	PIP Freeze/On/Off	VCR VCR Plus+	Cable Guide	AUX Display	N/C Info
ENTER	TV Enter	VCR Enter	Cable Enter	AUX Enter	N/C Enter
MENU	TV Menu	VCR Menu	Cable Menu	AUX Menu	N/C Menu Bar
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow	AUX Up Arrow	N/C Page Up
DOWN ARROW	TV Select Down	VCR Select Down	Cable Down Arrow	AUX Down Arrow	N/C Page Down
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow	AUX Left Arrow	N/C Back
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow	AUX Right Arrow	N/C Forward
QUIT	TV Quit/Front Surround	VCR Quit	Cable Quit	AUX Clear	N/C TV Bar
SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info	AUX Setup	N/C Clear
RECORD	VCR Record	VCR Record	Cable Buy	AUX Edit	N/C Guide
PAUSE	VCR Pause	VCR Pause	Cable Guide	AUX Pause	N/C Mail
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	AUX Rewind	N/C History
PLAY	VCR Play	VCR Play	VCR Play	AUX Play	N/C Home
STOP	VCR Stop	VCR Stop	VCR Stop	AUX Stop	N/C Help
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	AUX Ffwd	N/C Search

References: 124-219 and up 221-1282

Control the volume on your sound amplifier while in other modes.

Amplifier Volume Override

Amplifier Volume Override:

1 Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in the "Programming Your Remote" section.

2 Press and hold MUTE and FLSHBK on your remote until the indicator light stays lit.

3 Press MODE Left/Right until the indicator light is under the mode that you want Amplifier Volume to appear, for example, TV.

4 Enter the special code: 4-9-9, then quickly press the ENTER button. (The indicator should blink and then turn off.)

Cable Volume Override:

1 Find the code that operates your cable box. Test it to make sure it's the correct one by following the procedure in the "Programming Your Remote" section.

2 Press and hold MUTE and FLSHBK on your remote until the indicator light stays lit.

3 Press MODE Left/Right until the indicator light is under the same mode that you chose in step one.

4 Enter the special code: 3-9-9, then quickly press ENTER. (The indicator light should blink and then turn off.) The VOLUME and MUTE keys now control the cable box.

😊 *Your volume and mute keys now control your amplifier. To change everything back to factory settings, reprogram all keys with their original codes. See "Programming Your Remote," page 38.*

☹ *If you can't find the code for your amplifier, use the Auto Find feature.*

Indicator lights

3

2

4

3357-o
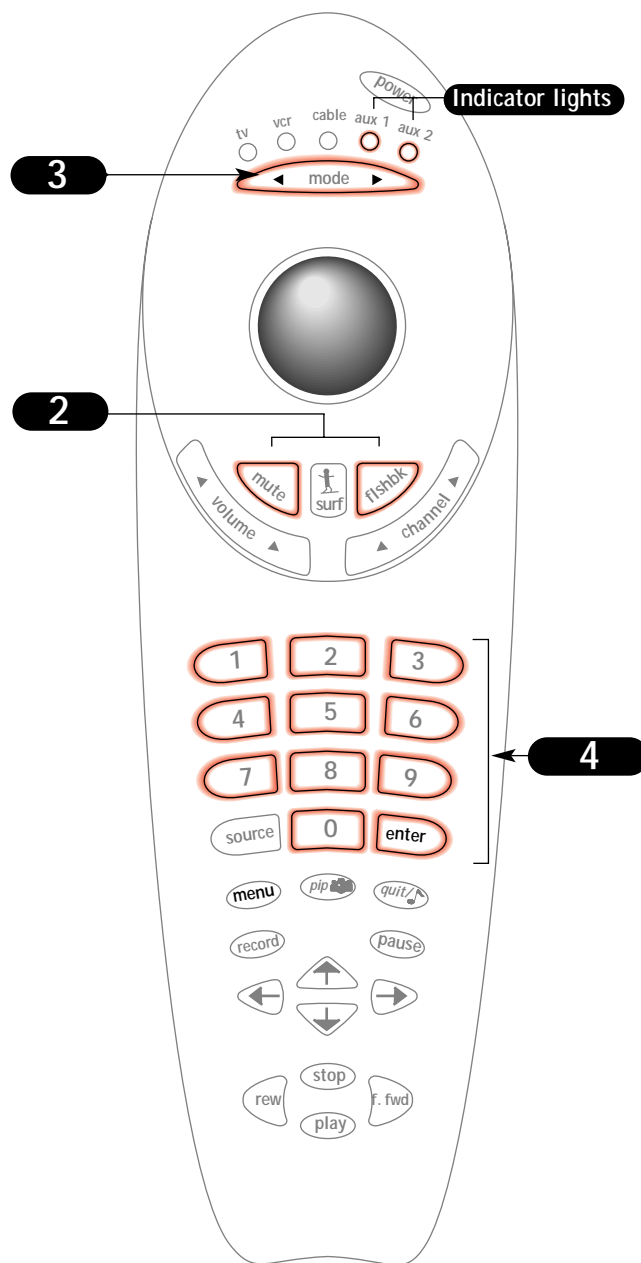
Product Code Auto-Find

Use the Remote control to search for all possible programming codes.

1 Turn on the device you want to operate.

2 Press and hold the MUTE and FLSHBK keys until the indicator light turns on.

3 Press MODE Left/Right until the indicator light is underneath the device you're trying to program; TV, VCR, Cable *Box*, Aux 1, Aux 2).

4 With the NUMBER keypad, enter the code 0-0-0 (zero-zero-zero), then press ENTER right away.

5 Aim the remote at the correct device and press POWER. Allow a second to pass, then press POWER again. Repeat until the device turns off.

6 Press ENTER to save the code. The indicator light on the MBR Z-Trak will blink three times and then turn off.

7 Press POWER to turn the device back on.

You can get out of Auto Find quickly by pressing QUIT. To erase all the codes and return to factory preset codes, press 9-11 in Step 4 when programming the remote.

If the indicator light does not turn off while you push POWER, all the codes have been tried and your device can't be programmed.

Indicator lights
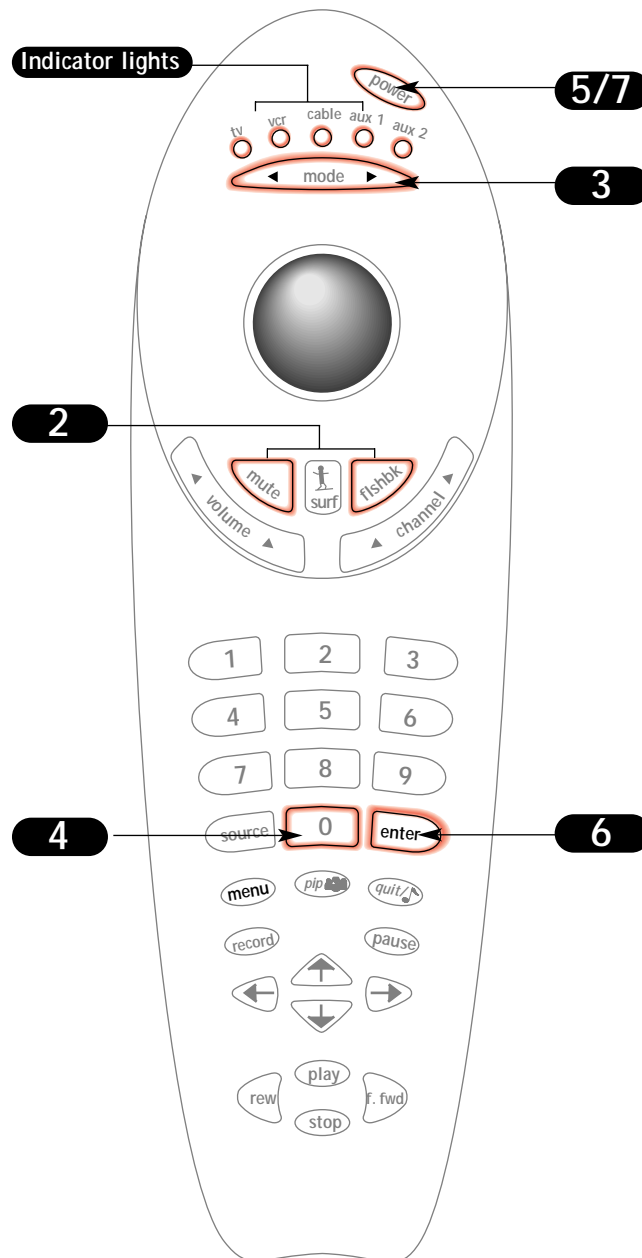
Mini glossary

AUTOFIND   Method of automatically finding product controlling codes. When features is active, automatically emits a different code each time POWER key is pressed until all codes have been tried.

3376-0

Maintenance

Caring for your Entertainment Machine.

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

SCREEN CLEANING

1. Spray a small amount of glass cleaner on a soft cloth and wipe the screen until it's clean.

2. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

3. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

CABINET CLEANING

1. Use a soft cloth with a mild soap solution to wipe the cabinet (avoid using any cleaner that says "industrial strength" on the label).

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning the Entertainment Machine on.

WOOD CABINETS

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

EXTENDED ABSENCE

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

Maintenance cont'd

PICTURE INTERFERENCE

Even though you may be getting cable, the signal may be weak, which means the quality
of your picture may suffer due to other factors. If there are problems with the image on your
Entertainment Machine, consult the Troubleshooting guide on the following pages.

VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your Entertainment Machine to play video games or for other uses that have single,
fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high.
If static images, like network identification patterns, are left sitting for too long, they can leave
a permanent impression on the picture tube. You can reduce the chance of this happening by
limiting the amount of time you use the fixed-image display, and by reducing the contrast and
brightness levels.

CLEANING THE TRAKBALL

Sometimes the Trakball gets greasy or dirty, which can affect it's performance. To clean it, moisten
a cloth with a solution of dish washing detergent and water. Gently wipe the exposed area of the
Trakball, rolling it with your thumb. Allow the remote to dry before using it again.

NOTE: Do NOT use alcohol or other "cleaning fluids" anywhere on the remote control.

*If you unplug your Entertainment Machine, you may have to reset the clock using the
Clock Set menu described earlier.*

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and poor sound.	• Check your antenna connection or location.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Make sure the wire from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and poor sound.	*The following may cause image problems or distortion:* *Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment* • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume levels. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed? • Are the wires for external speakers (if you have external speakers) properly installed?
No picture and poor sound.	• Are you in TV or cable tuning mode, and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound — The thing is just DEAD!	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• The CC (closed caption) option may be in Text mode. Select OFF in the Captions/Text menu (see page 26).
Picture has two horizontal black bars, one on top and one on bottom.	• Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars. Trust us.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly. • Is MBR Z-Trak in proper operating mode?

3376-0

Troubleshooting, cont'd

Menu options can't be changed or selected.

- Try unplugging your Entertainment Machine for a few minutes, then plug it back in. (Don't forget to reset the clock.)

No picture or sound when any non-cable source is selected.

- Check to see if the source equipment has been turned on.
- Make sure that the connections are secure on the back of your TV and on the source equipment.

Weak or no Stereo Sound when using a stereo VCR.

- Check to see if all the connections are secure.
- Look in the Audio mode menu to see if all the settings are correct.

The PIP inset is black or lacks contrast when Video 1, 2, or Front is the PIP source.

- You might want to adjust the PIP picture settings under the PIP menu.
- Check that all the wires are connected properly.
- Is PIP source turned on?

The PIP inset is "snow" when the source is Antenna/Cable, or Video 1, 2, or Front Video.

- Look to see if the TV/VCR button on your VCR has the TV selected.

There is no picture in the PIP inset when using Video 1, 2, or Front Video for the PIP and Antenna/Cable for the main picture.

- Look to see if the TV/VCR button on your VCR has the TV selected.

If all else fails, try disconnecting the TV power cord for five minutes. If that doesn't resolve the problem, call 1-847-391-8752, extension 5, between 8:30 am and 4:30 pm Central Standard Time.

3357-o

Glossary

A list of definitions for words found in this guide.

A/V CABLES	Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.
A/V DEVICE	Any device that produces video or sound (VCR, DVD, cable box, or television).
ADD	This function lets you add new channels to list that you'll scroll through when using your remote.
AMPLIFIER	An external machine that amplifies sound from a television, CD player, VCR, DVD or other A/V device.
ANTENNA	The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.
BBE SOUND CONTROL	Expands the range of tones your surround sound system delivers, giving you higher highs, and lower lows.
CAPTIONS/TEXT	A form of subtitling that writes out the dialog for your program.
COMPONENT VIDEO	Some video equipment uses three separate lines (Y, R-Y, B-Y) to more precisely reproduce images. Your manual will explain how this relates to your equipment.
DELETE	This function lets you remove channels that you don't watch from the list you'll scroll through.
ICON	A small picture on your screen that represents a function or menu item.
INPUT	Refers to the jack that receives a signal into the TV, VCR or other A/V device.
JACK	A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a bigger opening and are color-coded.
MODE	The device that the remote control is currently controlling (TV, VCR, CABLE (CABLE BOX), Aux 1, or Aux 2) is the remote's operating "mode."
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the same audio.
OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider.

3376-0

Glossary (cont'd)

Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

OUTPUT Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

POINTER The image of the selector arrow that appears on-screen and points to the option you want to work with.

SECOND AUDIO PROGRAMMING/SAP Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

SIGNAL Picture and sound traveling through cable, or on the air, to your television screen.

SOURCE The term for the equipment that provides audio and video information to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

STEREO SOUND Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.

SURF The surf function creates a special list of your favorite channels. You can access this group of channels by pushing Surf on the remote.

TUNER A device that picks up broadcast signals and turns them into picture and sound. (TVs, VCRs, and Cable Boxes.)

Index

Find what you want quickly.

3357-o

Index

Find what you want quickly.

3357-o

Direct-View Color TV　Welcome to the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor　During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed, as determined by the Zenith service center, as a result of manufacturing defects.

Parts　New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service　Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered　This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT.

OWNER'S RESPONSIBILITY

Effective Warranty Date　Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide　Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service　Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna　Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important　Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service　For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

ZENITH CONSUMER SERVICES	**ZENITH ELECTRONICS CORPORATION**	**IN CANADA, WRITE OR CALL US AT:**	**IN MEXICO, WRITE OR CALL US**
Factory Owned Service Center	Zenith Response Center	LG Electronics	LG Electronics
Home & Carry-in Service	1000 Milwaukee Avenue	235 Superior Blvd.	Av. San Andres Atoto, No 8
Television/VCR	Glenview, IL 60025-2493	Mississauga, Ontario, Canada LST-2L6	Col. San Andres Atoto, Naucalpan
Parts and Accessories	Telephone (847)391-8752	tel: (905)795-6240,	Estado de Mexico,
PTV/Computer	Mon-Fri, 7:00 a.m.- 8:00 p.m. CST	fax:(905) 670-2379	C.P. 53500
Service Contracts Hours:	Sat,　8:00 a.m.- 5:00 p.m. CST		tel: 01 (800) 50 481
M-F 8-6, Sat 9-2			y en el D.F. 359 43 55
801 E. Roosevelt Rd			fax 01 (800) 50 733
Lombard, IL 630-705-2830			y en el D.F. 357 17 56

Additional Zenith Picture Tube Protection Plan Available

Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new television. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your television in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (847) 391-8757.